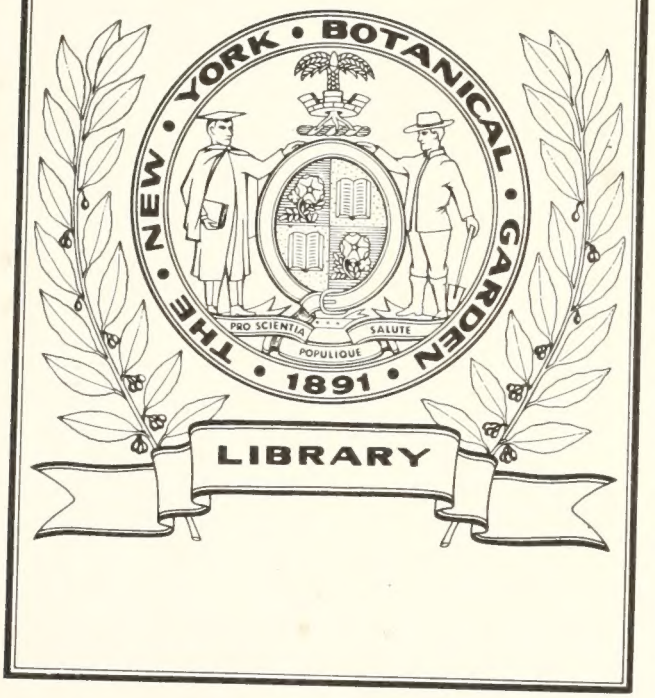
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Vol. XIX JANUARY 3, 1914 No. 1



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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Asparagus plumosus and Sprengeri

It is always better to sow this seed as soon after the new year as possible so as to produce fine plants by next June. It seems as every year goes past that we have to grow better plants to keep up to our brother grower. Use a compost of loam three parts, leaf mold two parts and enough sand to make it porous. Fill the pans within an inch of the top and then press the material moderately firm and on this sow the seed. Cover the seed about an eighth of an inch deep. Place in a temperature of about 70 degrees at night and keep them shaded until they come up when they can have all the light agoing. When they show up well stand them near the glass and keep them moist and in the same temperature that they were started in. When they are big enough to handle they can be potted into 2-inch pots, using a mixture of fresh loam three parts, cow manure one part and a little sand. When they have filled these pots with roots move into 3-inch and again into 4-inch.

Care of Geraniums

One of the heavy jobs just now is shifting geraniums from 2 to 3-inch pots. It is always better to do this as soon as possible, so as to give the plants a long season in which to grow. It is better to give two shifts than one. They can be moved successively to 3-inch and 4-inch pots. For a compost use two-thirds of soil that has been stacked up in a compost pile and mix with one-third of very well rotted manure and give the geraniums a light, sunny bench. After potting they enjoy a little bottom heat; so, if you have any heating pipes under any of the benches, these would provide the necessary warmth. A temperature of 65 degrees in the day and 45 to 50 degrees at night is sufficient. A little more warmth is desirable for young stock, until it gets established. Add a 4-inch pot of fine bone to each bushel of soil. This tends to make the growths harder and more floriferous. I must say that if you want good bedding plants in May, bushy plants with one or two good trusses of flowers, this midwinter shift is necessary and will pay well. Water with care until they are well rooted.

Sowing Gloxinias

Time to make a sowing of gloxinias. Use a light compost of one-half of loam, one-half leaf mold, with some sand. Sow the seed on this and first press in firmly on the moist surface. Cover with a square of glass and place near the light in a temperature of from 60 to 65 degrees. When the seedlings begin to come up they should have more light and air. When fit to handle they can be pricked into other pans or flats. Later they can be potted into small pots. The soil for the first shift should be very sandy and pliable—a compost of fresh loam and partly decomposed leaf mold in equal parts with a dash of clean sharp sand added. Make provision for ample drainage. Raise them up into full light near the glass, in order to prevent them from becoming drawn and weak, and keep the atmosphere moderately moist. Good judgment must be exercised in ventilation according to the condition of the weather out of doors. On all bright mornings they should be lightly syringed. To keep free of insects fumigate regularly once a week.

Seed Sowing

January is a good month in which to sow many flower seeds. It is an advantage to start many varieties before the solar heat gets stronger. In a uniform temperature, such as we usually get in January, germination is more likely to be good than later in the season. In each case we prefer to use sterilized soil and to water the soil before sowing the seeds, dusting a little fine sand over them after watering, then covering with sheets of glass and paper until germination takes place. All such seeds as verbenas, Vinca rosea, V. alba, heliotropes, browallias, cannas, asparagus in variety, Lobelia Emperor William, L. gracilis, torenias and petunias and many perennials can advantageously be started now.

Tuberous Begonias

These begonias make most useful plants for the retail florists. They can be used in a good many ways for outdoor embellishment, such as for filling vases, window boxes that have a partially shaded position, and also for beds and borders where the sun does not strike too strong. Sow now some of the best strains in pans in loam two parts, leaf mold and sand one part each. Fill the pans to within half an inch of the top. Sprinkle on some finely sifted compost and press firmly and even all over and on this sow the seed. Keep the pans covered with a piece of glass until the seeds have germinated. To do well they should have a temperature from 65 to 70 degrees during the night. Keep well up to the glass so they will not draw. In five or six weeks they should be large enough to prick out into flats. Some time in March they will be ready for two-inch pots. For a potting compost use soil two-thirds, old manure and leaf mold one-third each with some sand. At this stage give a night temperature of 60 degrees.

Start Making Flats

It will only be a very short time before we will need lots of flats to hold our young stock. Now before the rush starts get some light lumber or boxes and make up into flats. Every florist should make use of any spare time in getting up a good supply of these very useful boxes. Flats can be made into a handy size of 14 by 20 inches which makes about the best size for all general use. So get busy now on this work.

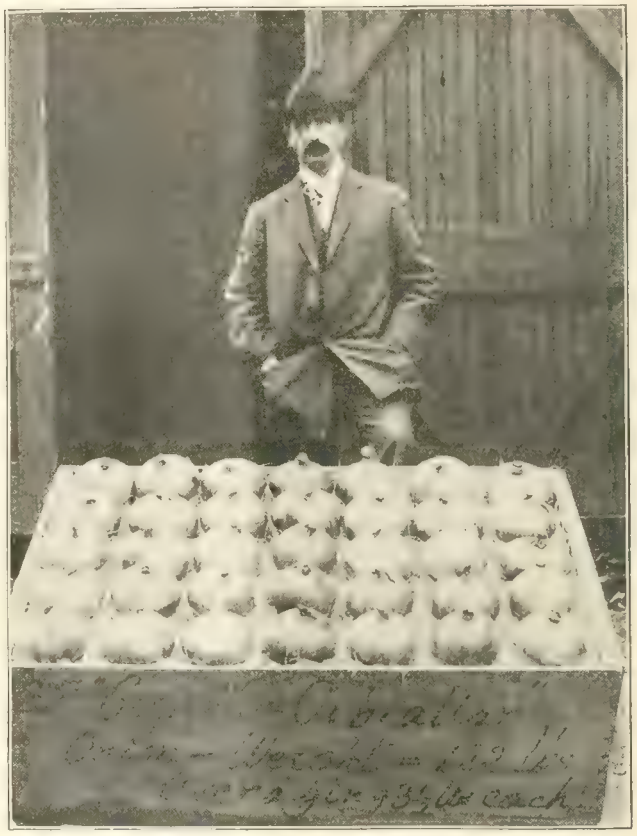
Mr. Farrell's next notes will be on the following: Chrysanthemums; Fibrous-Rooted Begonias; Orchids; Primulas; Rambler Roses; Value of Records.

A GRAND ONION (Gigantic Gibraltar)

While this onion is by no means new it is comparatively unknown to the majority of gardeners. But among onions grown for exhibition it ranks very high—in fact almost stands alone. Ailsa Craig, Cranston Excelsior and Prize-Taker are known to and have been grown by most of us, but Gigantic Gibraltar is something in the nature of a "bolt from the blue,"—albeit a very welcome one as it has proven itself to be superior to all the rest. A deeper green than any of the other onions, it is quite distinct in foliage and almost free from that glaucous tint which characterizes most of the onion family. Its size and its high average of first-class bulbs never fail to command our notice. Whereas, in growing Ailsa Claig we are fortunate if we secure from fifteen to twenty per cent. of exhibition bulbs, we can depend on forty per cent. from Gigantic Gibraltar—with its far better keeping qualities.

As the time rapidly approaches when next year's show onions must be sown, a few words on their culture will not be out of place. Growing a few of these large onions affords a peculiar pleasure to the enthusiastic gardener; for what plant responds so generously to liberal feeding and general good culture? Besides this is one of the few vegetables that loses none of its finer qualities when grown to the limit, and after maturity keeps for many months—a monument to the skill of the grower; so unlike the large chrysanthemum bloom whose glory is so evanescent, its reign never exceeding a few brief days.

Secure good seed from a reliable firm and sow—either singly in small pots or scattered very thinly over a flat or pan—about the last week in January. Allow the seed to germinate in a temperature of about 60 degrees and, if sown otherwise than in the small pots, prick out singly as soon as the seedlings are large enough





to handle. Except for purposes of germination always use a soil that is fairly rich in manure; a small addition of bone meal is generally beneficial. I prefer pot culture to flat culture because it presents better possibilities for individual treatment, and the condition of the roots may be examined with greater ease. It should be needless to tell the ambitious grower to anticipate sudden changes in temperature, to keep the soil from becoming too dry, and to attend to the repotting before the soil in the pots becomes impoverished. A temperature ranging from 55 degrees to 60 degrees nights and 60 degrees to 65 degrees days—with all the air and sunshine the weather conditions will permit—is best calculated to aid them on the "even tenor of their way." Inure them gradually to outside conditions by removing to cold-frames about the end of April—removing the sashes entirely on the fine days. By the 15th to the 20th of May the plants (if well grown) should have attained a four to five inch pot size and should be planted out. Manure the soil heavily with a good grade of farm-yard manure, a light dressing of bone and a little lime. In planting see that every root system is opened out, carefully and gently *but firmly* pressed into intimate contact with the soil. If the soil is on the dry side give a good watering at once, scuffle the surface over the next day and keep it loosened up at all times until about the middle of June when the soil will be sufficiently warmed up to warrant a mulch. This mulch may be some spent mushroom bed material, partially decayed leaves, or any other suitable material; taking care that the mulch is not too gross. Daily syringings with the hose during bright hot weather will encourage rapid growth and aid in keeping thrips off the plants.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

1914

It seems but yesterday that we began to get used to writing 1913 and here it is 1-9-1-4. May the new year bring all the readers of HORTICULTURE all those desirable things that we all dream about. And in business let us profit by our mistakes in the year just passed, and resolve to make less in the coming year.

Cold Weather and Shipping

It is best not to take any chances with Jack Frost, on these cold sharp mornings, when the mercury hovers around ten or even lower. Use plenty of paper in the boxes, and better still wrap the boxes on the outside with paper. This will be better than paper inside, but do not omit the inside newspapers for that reason. In tying up the boxes use good strong rope that will not break, and thus insure safe arrival of the flowers in the market. Cracked ice can now be omitted.

The Icebox

Just because the weather is very cold that is no reason why the icebox should be allowed to run too warm. Many places will experience difficulty in getting good ice, and often have to go to great expense to store it. For the small grower whose wants are limited it is very simple to make the required amount by getting some cheap pans and filling them up with water for the night and letting them freeze outside. Be sure, however, to put a stick or a block of nice soft wood into each, or the frost will tear the pans to pieces. The wood in the water will take all the expansion, and there will be no tearing as the water freezes. Keep the icebox about 48 or 50 degrees which will harden the roses very well, without causing them to open too much.

Benches for Young Stock

Now that you will be selecting a bench or a house for the young plants, remember that next year's success largely depends on these plants so they'd better have the best of everything, especially sunlight, which is very essential. If you grow only a few plants, select a bench in the front where the sun will reach the plants for the longest time possible. If the bench is too low, raise it by putting boards across on some 2 x 4's, thus making it wider as well. Then use a little sand or screened ashes to put over the boards, and it is then ready to receive the plants. To keep the ashes from sifting through the cracks between the boards, put some newspapers on the bench before the ashes or the sand is put on. This layer of paper may seem pretty thin, but it will hold all the ashes or sand as long as it is not disturbed.

Watering During Cold Weather

When the weather is very cold making it necessary to fire very heavy, watch the benches very carefully, as they are very likely to dry out here and there, especially if all the benches are raised, and there is heat underneath. Look for the dry spots in the bottom of the bench, as well as the surface for often the bottom will dry out more rapidly, and it is there where most of the roots will be found. Water as often as necessary, and water thoroughly when you do water. Never leave any dry spots in the benches behind you. There is no use wasting a good deal of water, but be sure that you give the plants enough to make it drip lightly through the benches.

Bending Beauties When Tying

It will be necessary to bend some of the long Beauty shoots that have been growing and not setting. We find it best to bend them towards the west, as that seems to make a little difference in their growth. At any rate get them all bent the same way or you will have a good deal of trouble if you have to bend them down again. In tying them after bending be sure to tie them well at the bottom, or you will have a little trouble with them when you syringe.

Feeding the Plants

Mulch the plants where they need it, and do not use any very rich fertilizers, especially those that are very rich in nitrogen. We do not like to use anything too strong, especially on Beauties. Cow manure is about the best that can be used as it is an all-around plant food, and not a stimulant. A little liquid manure applied once or twice a week will be very good, especially if the plants are making plenty of new growth.

Light sprinklings of lime and soot seem to be very much to the liking of the onion if applied about fortnightly, and sometimes a good soaking of weak liquid manure might be advantageously given.

Exhibition onions should have finished their growth early in August and the ripening process will be assisted by withholding water, and accelerated by lifting the onion slightly with a fork. Should ripening be deferred too long and the fall rains commence before the bulbs are harvested much damage by rotting may ensue. As soon as the shrinking foliage indicates that the bulbs are ripening, remove them from the open ground to some airy loft; or put some boards in the bottom of the frame and partially cover with the sash during good weather, and completely protect them from rain. Remember that these large onions are easily bruised and once bruised will soon rot;—"handle with care" should be our motto at all times.

Edwin Jenkins

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Undesirable

Repeated mention has been made by our correspondents in describing Christmas conditions, of the insatiable demand for dried and dyed and imitation flowers which has been developed this year. We are sorry that it is so. It is nothing to the credit of the public that they are disposed to accept this stuff as a substitute for fresh flowers and growing plants nor to the retail flower trade that they should encourage it. The hopeful side of it is the probability that the craze will be short-lived. Some thirty years ago there was a similar outbreak, when bleached, dyed and painted grasses were sold in enormous quantities. But there was more justification for it in those days of fluctuating supply and frequent famine in the cut flower market than there is now.

Bon voyage

Our columns this week contain notes of the remarkable contribution to our botanical, arboreal and floral knowledge of the richest temperate flora in the world, from the pen of E. H. Wilson, and next week we shall tell of the notable farewell dinner given to that gentleman by the Horticultural Club of Boston on the eve of his departure for Japan where he is to carry on some important research work in behalf of the Arnold Arboretum. Entirely apart from the eminent position which Mr. Wilson has won for himself in the horticultural and scientific world by his work on the Chinese flora, he has, in his sojourn in Boston, notably endeared himself to the fraternity here by his kindly companionable traits and cheery good-fellowship. The attachments thus cemented will hold secure during his absence, with hearty good wishes for the success of his expedition and his safe return to our midst.

Local publicity

It is encouraging to know that the retail florists all over the country are actually waking up to a realization of the necessity of local newspaper advertising. Other lines of business catering to the public direct have been doing it right along for years and the florists have been almost the only exception of late. If there is any one thing which should have the retailers' careful attention today it is the development of community interest. It is essential under present conditions that he should follow the approved methods of getting in close, neighborly touch with his home public, acquainting them with the goods he carries, the facilities he offers and his willingness to meet their every requirement and to co-operate with them in all movements for the betterment of the community. In this laudable ambition he can find no better co-worker than the local newspaper. And as to advertising, we should all remember that it is not what we advertise but what the people find behind the advertising that counts.

The Gladiolus Situation

Editor HORTICULTURE:

Dear Sir:—I note with interest your editorial on "The Gladiolus Problem" and I note with pleasure your remarks concerning American grown bulbs, and naturally my hope is that American buyers and planters will come to the same conclusion, for it does seem a pity that the one bulb that can be grown so successfully in America and has really come to be a distinctly American industry should now be threatened with an unfair competition. I say unfair because I do not think that we are receiving a fair treatment from the Government when it places only 50c. a thousand duty on a bulb that can be grown so successfully in America and places higher duties on bulbs that cannot be increased with any degree of success in America.

I would like to see some concerted effort made by the American growers, backed by the trade papers to secure a just adjustment of the tariff on these bulbs.

I. S. Hendrickson

Flowerfield, N. Y.

In editorial note on "A Gladiolus Problem," "tariff framers" was incorrectly printed "tariff farmers," in last week's issue.

A REMARKABLE NEW BOOK.

A Naturalist in Western China, with Vasculum, Camera and Gun. Being some account of eleven years' travel, exploration and observation in the more remote parts of the Flowery Kingdom. By Ernest Henry Wilson, V. M. H. With an introduction by Charles Sprague Sargent. L. L. D. Two volumes, with 101 full page illustrations and a map. The American edition published by Doubleday, Page & Co., New York.

Before reviewing this book a few words about its author and his work will be fitting. Mr. Wilson is a graduate of Kew Gardens. His travels in Western China began early in 1899, and had for their object the collecting of botanical specimens and the introducing of new plants into the gardens of Europe and America. There were four expeditions in all, the first two in the interest of the Veitch Nurseries and the last two on behalf of the Arnold Arboretum of Harvard University. During the



E. H. Wilson.

eleven years spent in the unexplored and uncharted wilderness of central Asia he collected no less than sixty-five thousand specimens and sent home seeds of over fifteen hundred plants. Mr. Wilson thus has the distinction of having discovered and introduced into cultivation more valuable trees and shrubs than any one in the whole history of plant discovery and introduction. He has added inestimably to the list of garden plants hardy as far north as Massachusetts, notably Buddleia, Berberis, Cotoneaster, Spiraea, Clematis, Rubus, etc. Possibly more important than these are the trees, especially the conifers, which he has discovered, although it is rather too soon to form an opinion of their future value, at least in New England. That they will succeed in most parts of Europe there is no doubt. While many of Wilson's rhododendrons may not flourish here in Boston, they are destined to be very valuable on the Pacific Coast and the Arnold Arboretum is already testing them at several important stations. It is not possible to say too much of E. H. Wilson's intelligence, resourcefulness and pluck. No one but a man possessed of indefatiguable industry, intrepid courage and having a rich store of scientific knowledge could have accomplished what he has done, although not yet 40 years of age. His book is what might be expected from such a man—indeed it is much more and the reader is amazed at the myriad of remarkable facts here for the first time recorded with such sincerity and wonderful exactness. It is from first to last the straightforward graphic story of a man who knows his subject and it will be prized as an unique addition to botanical and horticultural literature.

Flora, topography, geography, zoology, geology, agricultural and mineral resources, products, history, methods of travel, customs, language and religion are entertainingly treated in the various chapters and those portions describing the author's wanderings and observations through forest solitudes, mountain fastnesses and wild gorges never before penetrated by a foreigner and the hardships and privations entailed are of absorbing interest. Every chapter teems with interesting flower lore, but particularly charming are those devoted to the flora of Ichang, the journey in quest of flowers in northwest Hupeh and the tour across the little known Chino-Thibetan borderland. The concluding chapter of Vol. II is devoted to a thoughtful commentary on the race inhabiting this vast country and its future possibilities and influence on human destiny. The author speaks feelingly of the uniform courtesy and kindness of the natives even during such periods as the Boxer outbreak and the Russo-Japanese war, and generously attributes a large part of his success to the devoted loyalty of his Chinese collectors. The illustrations are very fine throughout, all but six being reproductions from original negatives taken by Mr. Wilson in the course of his journeyings.

Prof. C. S. Sargent's introduction is a very thorough presentation of cognate facts as demonstrated by the researches conducted by the Arnold Arboretum, with exhaustive comparisons between the forest flora of Eastern North America and Eastern Asia and showing that the two regions have much in common. The connection of the Arboretum with this Chinese work has given it an international reputation which it could never have obtained if it had confined its explorations to North America. It is a matter of no small gratification to the friends of the Arnold Arboretum that it has been, through the enterprise and sagacity of Prof. Sargent and the invaluable aid of Wilson, supplemented by the cultural skill of Jackson Dawson, able to bring to the gardens of the United States and Europe such a large number of new, useful and beautiful plants.

Brooklyn, N. Y.—Richard Shannon, florist, and five others who were with him in an auto, were severely hurt in collision with a milk wagon when returning from Coney Island early on the morning of December 23. Shannon was taken to the Coney Island Hospital with a fractured shoulder blade and lacerations.

COVER ILLUSTRATION.

Aquilegias or Columbines have been so greatly improved during the last decade or two by hybridization that the long-spurred varieties of today are among the most beautiful and useful of our garden perennials. When planted in groups in the garden, either in separate or mixed colors, they make a charming display throughout the middle of the summer and for all cut purposes they are of exceptional value. Although of perennial character they can be very successfully treated as annuals, by sowing the seed early in the new year.

W. F. KASTING, P. M.

Congratulations are certainly in order. W. F. Kasting has been appointed and confirmed as postmaster of the great city of Buffalo. All who know the hustling wholesale florist and zealous treasurer of the S. A. F. will applaud this appointment as an ideal one with the certainty that W. F. Kasting will make a faithful and in every respect efficient official in the



W. F. Kasting.

public trust thus placed in his keeping. And the florist trade is a joint participant in the honor bestowed on popular "Billy" Kasting.

PERSONAL.

Tom Windram, of Cincinnati, Ohio, left the first of this week for the Lake Shore Ferneries at Leesburg, Fla.

Edwin Saunders, fromerly of Lenox, has been appointed superintendent of the greenhouses of A. N. Cooley, Pittsfield, Mass.

Boston visitors: James H. Morton, Huntington, N. Y.; Mr. and Mrs. H. Bayersdorfer, Philadelphia, Pa.; Robert Greenlaw, representing S. S. Pennock-Meehan Co., Philadelphia, Pa.

W. Langhout, traveling representative of Van Zonneveld Bros. and Philipps, of Sassenheim, Holland, is at St. Mary's Hospital in Rochester, Minn., recovering from a serious operation.

The foreign journals are featuring a new double-flowered form of Primula malacoides.

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North! East! South and West! the word comes back to us—"Finest Rose we ever handled!" The color holds in winter when the Killarneys bleach almost to white. We have five thousand plants that have been carried over and are now starting off splendidly. Why not remove those poor plants and replant with Shawyer, which we guarantee will give you a wonderful spring and summer crop.

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CHARLES H. TOTTY, MADISON, N. J.

SOCIETY OF AMERICAN FLORISTS

To the Officers and Fellow-Members of the Society of American Florists and Ornamental Horticulturists, Greetings! and the best compliments of the season.

May I ask for a moment of your kind attention in the midst of your busy life?

I believe that the thirtieth year of the existence of our National Association can easily be made the most conspicuous, progressive and fruitful one in the history of our Society, if we only, all of us, do our modest share towards that end. I wish to thank you for the confidence you have shown me in entrusting a part of that work and responsibility into my hands, and I wish to ask you now for the support and help which is due our organization.

In selecting and appointing the men to the different offices of responsibility, which it has been my duty, right and privilege to bestow, I have tried honestly and believe have succeeded to find the right men for those positions of trust and honor. While I am glad to have had the opportunity to so honor them, my main object was to secure their efficient and loyal help for the progressive and important work which our National Association has set out to accomplish. The honor of those offices demands and is sustained only by the faithful and efficient performance of duty. He who would accept such distinction without earnest intention and endeavor to perform his duty cannot disguise under this mantle of trust and honor his lack of appreciation and worthiness for a common cause. But there are none such amongst the officers of the S. A. F. & O. H.

The aims and interests of our organization are many, and yet they affect us all alike and are, therefore, worthy of the careful consideration and attention of every follower of our trade in all its many branches. Do not let us ask the question, "What good will it do me?" but rather let us consider, "What good can I do?" We cannot do good to others and a common cause without benefiting thereby ourselves.

Our Association meets once a year in annual convention for three or four days, and transacts its business along a well prepared program, pertaining to the most pressing needs of our common interests. The Executive Committee, consisting of the officers and the Board of Directors, is entrusted with the conduct of the business affairs of the society. The best support that can be given those officers by the members of the Association is by keeping in close touch with them through correspondence or through the medium of our trade papers, which are so closely interwoven with our interests, and whose columns are always so generously opened for the expressions of opinions of all, be it pro or con on any deserving subject. The officers will be enabled to work in your interests if you will confide in them and make them acquainted with your needs, desires and objects. It is also one of your duties to give your close attention and thought to all matters that the Executive Committee submits for your consideration and action. Be a live member and show your interest and work through true co-operation and not by kicking and often unjustified criticism.

The prompt payment of dues and the loyal attendance of conventions alone does not cover anywhere near all we owe the Association. We owe it our moral and active support. Our Association is on a sound financial basis and is strong enough to accomplish almost anything worthy it may undertake. Yet less than 10 per cent. of the 20,000 florists of our great country are enrolled on our membership list. There is no good reason why every gardener and florist should not be a member of the S. A. F. & O. H., and not only every state vice-president, but every individual member should set out to bring in his share of the strays within the com-



J. J. Hess
S. A. F. Director for Three Years.



J. A. Peterson
S. A. F. Director for Three Years.

mon fold, and if the affiliation program, as planned by our sturdy Farenwald and in part already inaugurated by the Florists' Telegraph Delivery Association, is receiving the deserved support, the year 1914 should mark a great increase in our numerical strength and united influence. That in union there is strength is a byword of long and true standing, and that the National Society has been of inestimable value in the development of the florists' trade and the protection of its interests no one well informed on trade matters will attempt to deny.

A large amount of important work is continually before the society and the present year is no exception. While all the many projects and interests are in good hands through the different committees, officers and representatives, let me ask once more of each loyal member of our great Association his active moral support in all of our undertakings. Let us all put our shoulder to the wheel. Let us give some of our time, our thought, our efforts and our strength to the upbuilding and strengthening of our National Association so that we may enter and capture with merit that horticultural stronghold, our next Convention City, "dear old Boston," as she has never been captured since the days of "Bunker Hill."

Yours very truly,
THEODORE WIRTH,
President.

List of Appointments, January 1, 1914.

DIRECTORS FOR THREE YEARS—J. J. Hess, 1145 Farnam street, Omaha, Neb.; J. A. Peterson (Westwood), Cincinnati, Ohio.

WASHINGTON REPRESENTATIVE—W. F. Gude, 1214 F street, West, Washington, D. C.

NATIONAL FLOWER SHOW COMMITTEE—Adolph Farenwald, Roslyn, Pa.

BOTANIST—Prof. John F. Cowell, Botanic Garden, Buffalo, N. Y.

PATHOLOGIST—Prof. E. M. Freeman, University Farm, St. Paul, Minn.

ENTOMOLOGIST—Prof. W. E. Britton, New Haven, Conn.

TARIFF AND LEGISLATIVE COMMITTEE—W. F. Gude, Washington, D. C., Chairman; Jas. McHutchison, 17 Murray street, New York City; W. F. Kasting, 383-387 Ellicott street, Buffalo, N. Y.; R. M. Ward, 71 Murray street, New York City; Julius Roehrs, Rutherford, N. J.; A. L. Miller, Station E, Brooklyn, N. Y.

SCHOOL GARDENS COMMITTEE—Benjamin Hammond, Beacon, N. Y., Chair-

(Continued on page 18)

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At the MASSACHUSETTS HORTICULTURAL SOCIETY, Boston, November, 1912:
SILVER MEDAL.
At the GARDENERS' AND FLORISTS' CLUB OF BOSTON, Jan. 1913-Feb. 1913:
REPORT OF SUPERIOR MERIT (each month).
At the INTERNATIONAL FLOWER SHOW, New York, April, 1913:
FIRST for best 100 crimson.
GOLD MEDAL for 12 largest blooms.
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At the CHICAGO HORTICULTURAL SOCIETY, April, 1913:
BRONZE MEDAL, first, best seedling not disseminated, any other color.
At the BOSTON CO-OPERATIVE FLOWER MARKET SHOW, April, 1913:
FIRST for 50 best seedlings not disseminated.
FIRST for 100 best carnations, ANY COLOR.
At the GARDENERS' AND FLORISTS' CLUB of Boston, May, 1913:
Report of HIGHEST MERIT.
At the AMERICAN INSTITUTE, New York, November, 1913:
CERTIFICATE OF MERIT.
At the HOLYOKE and NORTHAMPTON FLORISTS' CLUB, Holyoke, Mass., November, 1913:
SPECIAL PRIZE for 50 best carnations, any variety not disseminated.
At the OHIO HORTICULTURAL SOCIETY, Cleveland, Ohio, November, 1913:
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For EASTER. Azalea Indica, Mme. Van der Cruyssen, Vervaeneana, de Schreveriana, Niobe, Deutsche Perle and the other best varieties, 50c., 60c., 75c., $1.00, $1.25, $1.50 to $2.00.
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THE BAY STATE NURSERIES, North Abington, Mass.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Provision to Admit Foreign Potatoes From Disease-Free Districts.

The Secretary of Agriculture has issued two orders relating to the admission of foreign potatoes into the United States. One of these orders provides for the admission of disease-free potatoes from uninfected foreign districts under proper regulation and inspection. The other order, to protect American potatoes from the powdery scab and other diseases, temporarily extends the quarantine effective since September 20, 1912, against the importation of potatoes from Newfoundland; the islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales and Ireland; Germany and Austria-Hungary, to include also the rest of continental Europe and the Dominion of Canada. This quarantine became effective on December 24, 1913, except that shipments covered by consular invoices issued on or prior to December 24, 1913, will be admitted up to January 15, 1914.

As soon as any country or District can be shown to be free from potato diseases, the quarantine will be lifted, and potatoes will be admitted under proper regulation and inspection, as provided in the other order. It is possible that, in the case of certain provinces in Canada, and certain countries and districts in Europe, the absolute quarantine can be lifted in time to allow the later movement of the present year's crop under regulation and inspection.

Another "Simple Simon."

Our seed trade readers will be interested to learn that on December 22nd Congressman Wm. S. Howard of Georgia filed in the U. S. House of Representatives a bill (H. R. 11170) "to divest agricultural and garden seeds from their interstate character and that all persons shipping seeds directly to the consumer which are misbranded, adulterated, or in any way misrepresented shall be fined not more than $500.00 or imprisoned for not more than two years, or both."

Of course if intentional adulteration or misrepresentation was penalized, the bill would not meet such severe criticism, but as the bill now stands, it would, if enacted, stop all sales of seeds. This aspiring congressman evidently has not had the benefit of a study of the natural conditions affecting the growth, harvesting, and distribution of agricultural and garden seeds, or of the experience of other Congressmen in trying to legislate on this subject.

Notes.

The American Seed Trade Executive Committee will meet on January 9 at the La Salle Hotel, Chicago.

"Get them at Dreer's"



The Dreer Strain of Double Petunias

For nearly half a century the majority of the growers in the United States have been depending on the Dreer strain of Double Petunias, which this season compares favorably with stock we have heretofore supplied.

We offer for immediate delivery, good three inch pots, which will quickly furnish a good supply of cuttings, in fifteen varieties, 75 cents per dozen, $5.00 per 100, or the set of fifteen varieties, one of each, $1.00.

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We have a large stock of this variety which is so useful for summer cutting, 3 inch pots, 75 cents per dozen; $5.00 per 100.

Seed of our **SUPERB STRAIN OF FRINGED PETUNIAS.** Double, 75 cents per 500 seeds; $1.50 per 1000 seeds. Single, 50 cents per trade pkt.; $1.00 per 1/16 oz.; $1.50 per 1/8 oz.

Our Quarterly Wholesale Price List, issued January 1st, offers a full line of seasonable Plants, Seeds and Bulbs. The above prices are for the Trade only.

HENRY A. DREER, Philadelphia, Pa.

Kansas City, Mo.—T. Lee Adams has established a branch store at 1320 Grand avenue. His main establishment is at 417 Walnut street.

On Christmas, Charles J. Bolgiano, of J. Bolgiano & Son, Baltimore was presented by his employees with a handsome automobile robe and also resolutions of esteem thanking him for the many acts of kindness bestowed upon them during the year. In accepting Mr. Bolgiano made a short talk, in which he thanked them for their past hearty co-operation and also wishing them all a Merry Christmas and a Happy New Year.

Egyptian onion growing for export has developed to considerable proportions. The exports for 1912 totaled $1,920,257, as against $992,820 for 1908. The declared exports to the United States amounted to $317,990 in 1912, the other large buyers being England, Austria, Germany, Italy and France. Owing to unfavorable market conditions in the United States and England, the exports for the first nine months of 1913 show a falling off of $548,875, as compared with the corresponding period of the previous year.

CYCLAMEN

Best strain in existence.

4 inch $25.00
5 inch 50.00
6 inch 75.00

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Fine Plants Right Along After Christmas

A Succession of Azaleas, all colors, and Superb Cyclamen. Lilacs soon.

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100,000 Geraniums From 2 and 2¼ in. Pots

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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 2 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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Repeated laboratory tests on individual mixtures assure superiority of quality and growth.

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Experiment has shown us that a mixture of the proper grasses is more satisfactory than an individual grass. Why waste your time and money experimenting. Let us furnish what you need.

THE ALBERT DICKINSON COMPANY

SEED MERCHANTS

MINNEAPOLIS CHICAGO

CATALOGUES RECEIVED.

J. Bolgiano & Son, Baltimore, Md.—Advance 1914 Wholesale Prices for Market Gardeners.

Frederick Roemer, Quedlinburg, Germany.—Wholesale Catalogue of Choice German Flower Seeds.

Conard & Jones Co., West Grove, Pa.—"The Best Roses in America." A very comprehensive and enticing catalogue, profusely illustrated. Roses in natural colors adorn the covers.

Henry Mette, Quedlinburg, Germany.—Trade Catalogue of Vegetable, Flower and Farm Seeds. Front cover bears a handsome group in colors of twenty varieties of sweet peas.

Weeber & Don, New York.—1914 Catalogue of Garden, Farm and Flower Seeds. A very attractive catalogue, dignified in outward mein and very practical in inward contents. Has an interesting novelty and specialty list worth perusing.

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500 " 3.25
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	Tr. Pkt.	Oz.
Mammoth Fancy, Blue	$0.30	$1.25
" " Pink	.30	1.25
" " Scarlet	.30	1.25
" " Striped	.30	1.25
" " White	.30	1.25
" " Mixed	.30	1.00

Vinca Seed

ALBA. White with rose centre	$0.15	$0.50
ALBA PURA. Pure white	.15	.50
ROSEA. Pink	.15	.50
MIXED	.15	.40

Salvia Seed

MICHELL'S SCARLET GLOW	$0.50	$3.50
BONFIRE	.40	2.00
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This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

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A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

Louis Fernandez, florist, Main street, Haddon Heights, N. J., has retired from business.

Philadelphia, Pa.—Chas. Huber has bought the store of G. Miller at 2850 North Fifth street.

Hillsboro, Tex.—The Wood-Hunter Floral Co. succeeds M. C. Wood in the retail business here.

Rockford, Ill.—The Cherry Seed Co. have opened a cut flower department in their North Main street store.

Louis Giatras, retail florist, Columbus avenue and 104th street, New York, is ill with pneumonia at St. Vincent's Hospital.

STEAMER DEPARTURES

Allan.

Sicilian, Boston-Glasgow ..... Jan. 8

American.

New York, N. Y.-S'hampton ..... Jan. 9
St. Paul, N. Y.-S'hampton ..... Jan. 16

Atlantic Transport.

Minneapolis, N. Y.-London ..... Jan. 10
Missouri, N. Y. London ..... Jan. 17

Cunard.

Franconia, N. Y.-Mediter'n ..... Jan. 8
Carmania, N. Y.-Liverpool ..... Jan. 10
Andania, Boston-Liverpool ..... Jan. 15

French.

La Savoie, N. Y. Havre ..... Jan. 7
Rochambeau, N. Y. Havre ..... Jan. 10

Hamburg-American.

Amerika, N. Y.-Hamburg ..... Jan. 6
Pres. Lincoln, N. Y.-Hamb'g ..... Jan. 10
Pennsylvania, N. Y.-Hamb'g ..... Jan. 17

Holland-America.

Potsdam, N. Y. Roterdam ..... Jan. 6

Leyland.

Winifredian, Boston-Liverp'l ..... Jan. 10

North German Lloyd.

Koenig Albert, N. Y.-Med'r'n ..... Jan. 8

Red Star.

Finland, N. Y. Antwerp ..... Jan. 7
Zeeland, N. Y.-Antwerp ..... Jan. 14

White Star.

New York, N. Y.-S'hampton ..... Jan. 9
Adriatic, N. Y. Mediter'n ..... Jan. 10
Arabic, Boston-Liverpool ..... Jan. 13
Baltic, N. Y.-Liverpool ..... Jan. 15
St. Paul, N. Y. Southampton ..... Jan. 16

H. W. Field has sold his florist business in Northampton, Mass., to Aubrey Butler of Northampton and K. L. Ullman of New York.

The Columbia Florist, 110th street and Broadway, New York, folded up his tent and sneaked away the night before Christmas. It is reported that he owes over $5,000 in the wholesale cut flower district, the heaviest losers being in the order named: M. C. Ford, W. P. Ford, Langjahr, Badgley Riedel & Myer, Smith, Wm. Kessler and others.

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Reference or cash must accompany all orders from unknown correspondents.
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The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
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Send flower orders for delivery in Boston and all New England points to
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All Transfer Orders Filled Under Personal Supervision.

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Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

New Brunswick, N. J.—J. Clark.

Greensboro, N. C.—Greensboro Floral Co.

Negaunee, Mich.—F. Ashleman, City Flower Store.

San Diego, Cal.—Ledeboer & Baker, 1355 Fifth street.

Conshohocken, Pa.—Geiger Bros., 113 Fayette street.

Bangor, Me.—Cushman & Worth, corner State and Park streets.

Framingham, Mass.—Concord Square Flower Shop, John H. Barrett, prop.

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Transfer your orders for flower or plant deliveries to
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Flower and Plant Deliveries.
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THE J. M. GASSER COMPANY,
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Euclid Avenue

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St. Paul, Minn.
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Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

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440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

SOCIETY OF AMERICAN FLORISTS

(Continued from page 11)

man; Irwin Bertermann, 241 Massachusetts avenue, Indianapolis, Ind.; Gust. X. Amrhyn, Superintendent of Parks, New Haven, Conn.; Michael Barker, 440 S. Dearborn St., Chicago, Ill.; Leonard Barron, Garden City, N. Y.

STATE VICE-PRESIDENTS.

California—North—John McLaren, Superintendent Golden Gate Park, San Francisco. South—Edwin Lonsdale, Burpee Farm, Lompoc.

Colorado—John Edward Johnson, Pike's Peak Floral Co., Colorado Springs.

Connecticut—J. F. Huss, 1103 Asylum avenue, Hartford.

District of Columbia—Elmer C. Mayberry, 1339 14th street, N. W., Washington.

Florida—C. D. Mills, Jacksonville.

Georgia—A. C. Oelschig, Savannah.

Idaho—J. W. C. Deake, Twin Falls.

Illinois—North—W. I. Keimel, Elmhurst. South—J. F. Ammann, Edwardsville.

Indiana—North—J. S. Stuart, 2023 Meridan street, Anderson. South—Jos. H. Hill, Richmond.

Iowa—Roy Wilcox, Council Bluffs.

Kansas—Chas. P. Mueller, 145 N. Main street, Wichita.

Kentucky—George E. Schultz, 560 Fourth avenue, Louisville.

Louisiana—Harry Papworth, New Orleans.

Maine—A. E. Thatcher, Mt. Desert Nurseries, Bar Harbor.

Maryland—George Morrison, Carroll Post Office, Baltimore.

Massachusetts—East—William R. Nicholson, Framingham. West—Alfred J. Loveless, Lenox.

Michigan—East—M. Bloy, 880 Van Dyke avenue, Detroit. West—Henry Smith, 139 Monroe street, Grand Rapids.

Minnesota—C. F. Rice, 218 Fifth street, North, Minneapolis.

Mississippi—S. W. Crowell, Roseacres, Coakoma County.

Missouri—East—Robert J. Windler, 2300 S. Grand avenue, St. Louis. West—W. L. Rock, 1116 Walnut street, Kansas City.

Montana—J. C. Ring, State Nursery, Helena.

Nebraska—Irwin F. Frey, 1338 O street, Lincoln.

New Hampshire—Geo. E. Buxton, Nashua.

New Jersey—Joseph A. Manda, West Orange.

New York—East—John H. Pepper, 22 Thames street, New York City. West—S. A. Anderson, 440 Main street, Buffalo.

North Carolina—William Rehder, Wilmington.

Ohio—North—H. B. Knoble, 1836 W. 25th street Cleveland. South—C. E. Critchell, 36 E. Third street, Cincinnati.

Oklahoma—Geo. Stiles, 139 W. Main street, Oklahoma City.

Pennsylvania—East—Fred Hahman, Harrowgate Lane, Philadelphia. West—W. A. Clarke, 121 Sandusky street, Pittsburgh.

Rhode Island—Fred C. Green, Superintendent of Parks, Providence.

South Carolina—C. A. Moss, Spartanburg.

South Dakota—W. F. March, Mitchell.

Tennessee—Chas. L. Baum, Knoxville.

Texas—Henry F. Greve, 325 Main street, Dallas.

Utah—A. J. Alt, 62 S. Main street, Salt Lake City.

Vermont—C. E. Gove, 124 Main street, Burlington.

Virginia—F. A. Whelan, Mt. Vernon.

Washington—J. W. Duncan, Superintendent of Parks, Spokane.

West Virginia—S. A. Gregg, Charleston.

Wisconsin—Fred H. Holton, 457 Milwaukee street, Milwaukee.

Alberta—A. N. Terrill, Calgary.

Manitoba—H. E. Philpott, Winnipeg.

Ontario—H. Dillmuth, King street, East Toronto.

Quebec—G. A. Robinson, 749 St. Catherine Road, Outremont, Montreal.

J. J. HESS.

John J. Hess is a native of Switzerland where he was born in 1863. He came to America in 1884 and entered the service of C. Rieman Company at Indianapolis. In 1886 he went to Omaha and after working for two years for different firms, he went into business for himself with George N. Swoboda as a business partner. Mr. Swoboda is in charge of the greenhouse plant. Mr. Hess attends to the store business and as general manager has proven his qualifications as a sound and successful business man, in building up the fine business of which he is the head. Mr. Hess has been president of the Omaha Florist Club at different times, is an active member of the Commercial Club and has played a prominent part in many progressive undertakings in his home city. He is very popular, a good worker and an earnest hustler in whatever he undertakes. His standing in the trade in that large section of the country well enables him to stimulate, create and advance the interest of the S. A. F., and the trade in general.

J. A. PETERSON.

J. A. Peterson is so well known to the florist trade of this country that introduction is almost superfluous. He is a German by birth but has been so long a leading business man in Cincinnati that he seems an integral part of the florist industry of that thriving centre. He has a large range of plant houses at Westwood, the product of which has taken high honors at various exhibitions and where originated the popular Begonia Glory of Cincinnati. Mr. Peterson has always been a faithful and enthusiastic worker for the S. A. F. During the convention at Cincinnati in 1909, as president of the Cincinnati Floral Society, he carried many responsibilities and was a leading factor in the success of that occasion and the pleasure of the visitors. President Wirth has selected in Mr. Peterson a worthy incumbent for the honor of directorship.



A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
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A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches high,	$2.50	per doz.	4	24	inches high,	$5.00	per doz.
2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

MASSACHUSETTS HORTICULTURAL SOCIETY.

A meeting of the Board of Trustees of the Massachusetts Horticultural Society was held December 27.

Standing committees of the Society for the year 1914 were appointed as follows:

Committee on Prizes and Exhibitions: James Wheeler, Natick (Chairman); Duncan Finlayson, S. J. Goddard, T. D. Hatfield, Dr. W. G. Kendall, Alexander Montgomery, Edward B. Wilder, Peter Fisher.

Committee on Plants and Flowers: T. D. Hatfield, Wellesley (Chairman); Arthur H. Fewkes, Donald McKenzie, James Marlborough, William Nicholson, William Sim.

Committee on Fruits: Edward B. Wilder, Dorchester (Chairman); William Downs, Harold L. Frost.

Committee on Vegetables: Duncan Finlayson, Jamaica Plain (Chairman); Wm. N. Craig, Henry M. Howard.

Committee on Gardens: John K. M. L. Farquhar, Boston (Chairman); David R. Craig, Jackson T. Dawson, Arthur H. Fewkes, T. D. Hatfield, Richard Hittinger, Dr. Harris Kennedy, William Nicholson, Thomas Roland, Charles Sander, Wilfrid Wheeler, Robert Cameron.

Committee on Children's Gardens: Henry S. Adams, Jamaica Plain (Chairman); Harry S. Rand, Miss Margaret A. Rand, Wm. P. Rich, James Wheeler, Mrs. Augustus Hemenway.

Finance Committee: Walter Hunnewell (Chairman); Arthur F. Estabrook, Stephen M. Weld

Committee on Library: Charles S. Sargent (Chairman); Ernest B. Dane, George B. Dorr, Charles S. Minot.

Committee on Lectures and Publications: Wilfrid Wheeler (Chairman); George B. Dorr, F. C. Sears.

Committee on Membership: John K. M. L. Farquhar, R. M. Saltonstall, Walter Hunnewell.

Superintendent of Exhibitions: James Wheeler.

The annual award of the George Robert White Medal of Honor was voted to the Park Commission of the City of Rochester, N. Y.

This is the fifth award of this medal which is given annually for eminent service in horticulture. It is given to the Park Commission of Rochester this year in recognition of its successful efforts in establishing one of the most important collections of trees in America, in increasing the love of plants and horticulture among the people of Rochester, and in exploring the flora of western New York and of adjacent regions. The previous recipients of the award are Prof. C. S. Sargent of the Arnold Arboretum, Jackson T. Dawson, also of the Arboretum, Victor Lemoine, the late eminent horticulturist of France, and M. H. Walsh, the noted rose grower of Woods Hole, Mass.

On the same date A. M. Davenport of Watertown exhibited his new begonia Florence Davenport and was awarded a silver medal. It is a sport from Gloire de Lorraine. F. J. Dolansky of Lynn showed a number of hybrid Cattleya Trianæ for which he was awarded honorable mention and a silver medal for the variety alba.

WM. P. RICH, Sec'y.



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For Florists and Greenhouses. Hundreds in successful stores everywhere. Let us show you their economy. Ask for Catalog XI.
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W. J. KENNEDY

Re-elected President Gardeners' and Florists' Club of Boston.

PUBLICATIONS RECEIVED.

Edward A. Stroud comes on the stage in the role of editor. The initial number of The Main Line Floral Guide is before us. It is meant as a stimulant to the retail department which is an important and growing end of his business at Overbrook and Strafford, Pa. An excellent and commendable publication and sure to bring good results. A good method to follow by any pushing and progressive retailer. Mr. Johnson is assistant editor and general manager.

A GLADIOLUS WORKER.

A. E. Kunderd of Goshen, Ind., who originated the first ruffled gladiolus (Kunderdi Glory) has just sold to a Chicago house his entire stock of Chicago White, a variety which has proven itself very valuable to florists, as it is one of the very best forcing sorts as well as being remarkably early outdoors. Mr. Kunderd has succeeded in raising some remarkably beautiful sorts, which have gained great favor with the public, notably Kunderdi Glory (the first ruffled sort) Mrs. Frank Pendleton, Jr., Ida Van, Gov. Hadley, Pride of Goshen, Amaryllis, El Captain, Myrtle, Mary Bancroft and others of equal merit. His strain is unlike Childsi or Groff's and has an individuality of its own. All things being favorable, Mr. Kunderd will bring next August to the annual show of the American Gladolus Society some of his newest seedlings.

GARDENIAS

Dozen $2.00—$4.00, 100 $15.00—$25.00

For the balance of the season you can depend on us for all the Gardenias you need. The quality is as fine as any grown and our prices are always right.

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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI December 9			CHICAGO Xmas Prices			BUFFALO Xmas Prices			PITTSBURG December 15		
Roses												
Am. Beauty, Special	[illegible]	to	[illegible]	75.00	to	100.00	75.00	to	85.00	.....	to	50.00
" " Fancy and Extra	15.00	to	[illegible]	50.00	to	75.00	50.00	to	60.00	35.00	to	40.00
" " No. 1	10.00	to	15.00	25.00	to	50.00	35.00	to	50.00	20.00	to	25.00
Killarney, Extra	6.00	to	[illegible]	15.00	to	25.00	20.00	to	25.00	8.00	to	12.00
" Ordinary	3.00	to	[illegible]	6.00	to	12.00	10.00	to	15.00	4.00	to	6.00
Richmond, Hillingdon, Extra	8.00	to	[illegible]	25.00	to	[illegible]	12.00	to	15.00	10.00	to	15.00
" " Ordinary	4.00	to	6.00	12.00	to	20.00	8.00	to	10.00	6.00	to	8.00
Maryland,,Ward,Taft,Sunburst, Ex.	8.00	to	10.00	20.00	to	30.00	20.00	to	25.00	8.00	to	12.00
" " " " Ordinary	[illegible]	to	5.00	[illegible]	to	15.00	10.00	to	15.00	.....	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	20.00	to	25.00	.....	to	.....
Carnations, Fancy	[illegible]	to	5.00	8.00	to	12.00	6.00	to	8.00	4.00	to	6.00
" Ordinary	[illegible]	to	[illegible]	6.00	to	8.00	4.00	to	6.00	.....	to	3.00
Cattleyas	[illegible]	to	[illegible]	[illegible]	to	100.00	.....	to	75.00	50.00	to	75.00
Cypripediums	.....	to	.....	.....	to	.....	15.00	to	20.00	.....	to	15.00
Lilies, Longiflorum	[illegible]	to	10.00	12.00	to	15.00	10.00	to	12.00	.....	to	15.00
Callas	[illegible]	to	8.00	8.00	to	12.00	10.00	to	15.00	.....	to	.....
Lily of the Valley	[illegible]	to	[illegible]	3.00	to	5.00	4.00	to	5.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	[illegible]	to	3.00	3.00	to	4.00	2.00	to	3.00	.....	to	3.00
Freesias	2.00	to	3.00	.....	to	.....	.....	to	.....	.....	to	.....
Violets	.75	to	1.00	[illegible]	to	2.00	[illegible]	to	[illegible]	.75	to	1.25
Daisies	.75	to	1.00	1.00	to	2.00	1.00	to	1.25	.....	to	3.00
Sweet Peas	[illegible]	to	2.00	1.50	to	2.00	.75	to	1.50	.50	to	1.00
Gardenias	25.00	to	30.00	40.00	to	50.00	.....	to	.....	40.00	to	50.00
Adiantum	[illegible]	to	[illegible]	[illegible]	to	1.00	[illegible]	to	[illegible]	.....	to	1.25
Smilax	[illegible]	to	15.00	12.00	to	15.00	10.00	to	15.00	.....	to	20.00
Asparagus Plumosus, Strings	40.00	to	[illegible]	[illegible]	to	50.00	25.00	to	50.00	35.00	to	50.00
" " & Spren.	[illegible]	to	40.00	[illegible]	to	50.00	25.00	to	35.00	35.00	to	50.00

BUY **BOSTON FLOWERS**

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Hardy Fancy Fern Our Specialty
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W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

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RICHMOND, IND.
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A magnificent lot, mostly Trianae, some light, some darker.

$6.00 per dozen

A very good grade medium size flowers, Percivalliana and Trianae at $3.00 per dozen.

HEADQUARTERS FOR GREENS.

Boxwood, case of 50 lbs.	$ 8.00	Laurel Roping, Extra Heavy, per 100 yds.	6.00
Galax, Bronze and Green, per 1000	1.50	Smilax, string	.20 and .25
Case of 10,000	7.50	Hardy Dagger Ferns, best quality, large fronds, per 1000	1.50
Wild Smilax, per case	5.00	Extra long, per 1000	2.00
Bronze and Green Mahonia, per 100	1.50	Green Sheet Moss, per bag	3.50
Per 1000	12.50	Asparagus Strings, each	.50
Leucothoe, Green and Bronze, per 100	1.00	Cut Hemlock, per bundle	2.50
Per 1000	7.50	Asparagus and Spengerii Bunches, each	.50
Mexican Ivy, per 100	1.00	Sphagnum Moss, burlapped, 10-bbl. bales, each	4.00
Per 1000	7.50	5-bale lots, each	3.75
		10-bale lots	3.50

RIBBONS—Many new patterns in exclusive ribbons. If you have not yet received one of our new catalogues advise us at once and we will mail you a copy.

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Flower Market Reports

BOSTON There is not much to add to the notes on Christmas trade which appeared last week. The retail stores had stocked up well on plants, and as usual, devoted their energies to disposing of them first, holding off their flower purchasing largely until the last day. A good many azaleas were left over in retailers' hands, but with this exception the plants moved off very clean. In the rose market it is to be noted that the ready sellers were the medium grades—a 15 to 18-inch stem class being generally acceptable. The high grades evidently cost too much for the average buyer, and the culls and low grade product were scorned as not fit to buy. Of course, the bright colors had the preference and white dragged badly, not in roses alone, but in every line. The carnation was all right in colors, but of the whites there was a heavy overstock and lots were sacrificed at unquotable figures. Even in the colored sorts they had to be fresh and bright to command respectable prices. To revert to the roses once more, it should be said that never before has Boston seen so many American Beauties for Christmas. The well-known shipping facilities of this market at steady Christmas prices and the slump in holiday values of this rose in other centres brought an influx from outside which bore heavily on those local dealers who sought to maintain the quoted rates and a break was inevitable. Richmond, Killarney and Sunburst sold quite well, but Maryland, Taft, Ward and Hillingdon moved disappointingly slow. Cattleyas were so poor in quality that many were lost and nobody cared. There was a surplus of lily of the valley, although the sales were lively. Single violets went off all right, but doubles were rather slow. Gardenias were miserable in quality. The quarantine laws made havoc with the greens business and the "dead line" on shipments from certain sections of New England was enforced rigidly both by this country and Canada.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON January 1			ST. LOUIS December 15			PHILA. December 15		
Roses									
Am. Beauty, Special	40.00	to	60.00	25.00	to	40.00	25.00	to	35.00
" " Fancy and Extra	20.00	to	30.00	18.00	to	20.00	15.00	to	20.00
" " No. 1	10.00	to	15.00	10.00	to	15.00	5.00	to	12.50
Killarney, Extra	8.00	to	15.00	6.00	to	10.00	6.00	to	10.00
" Ordinary	5.00	to	6.00	4.00	to	5.00	3.00	to	6.00
Richmond, Hillingdon, Extra	8.00	to	15.00	8.00	to	12.00	10.00	to	12.00
" " Ordinary	5.00	to	6.00	5.00	to	6.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	15.00	8.00	to	10.00	6.00	to	15.00
" " " " Ordinary	4.00	to	6.00	4.00	to	6.00	4.00	to	6.00
Russell, Shawyer	10.00	to	20.00	.....	to	.....	5.00	to	25.00
Carnations, Fancy	2.00	to	3.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	1.00	to	2.00	2.00	to	2.50	2.00	to	3.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	40.00	to	60.00
Cypripediums	.....	to	15.00	.....	to	.....	12.50	to	15.00
Lilies, Longiflorum	6.00	to	8.00	12.00	to	15.00	10.00	to	12.50
Callas	.....	to	12.00	10.00	to	15.00	12.50	to	15.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	3.00	to	4.00	1.00	to	3.00
Freesias	.....	to	.....	3.00	to	4.00	.....	to	.....
Violets	.75	to	1.00	.40	to	.75	.25	to	1.00
Daisies	.....	to	2.00	.....	to	.....	1.50	to	3.00
Sweet Peas	1.50	to	2.00	.50	to	.75	.50	to	1.00
Gardenias	25.00	to	45.00	.....	to	.....	10.00	to	30.00
Adiantum	75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	25.00	15.00	to	25.00	35.00	to	50.00

The cut flower market has taken a big slump since Christmas. Carnations suffered the most and not only have prices gone down to an unprecedented level for this date, but the ice chests of the wholesale dealers are gorged with carnations as well as paper white narcissi, mignonette, lilies and other things. Roses, happily, are moving satisfactorily, American Beauty especially so. Killarney, white and pink, Taft, and Ward are selling all right in the medium grades. Lily of the valley is very abundant and of superb quality and is being moved off well on that account.

BUFFALO The Christmas week's business was such that it is not known as yet whether the volumn of trade exceeded previous years. The buying of holly began early and as the supply was shorter each day from Monday on, prices advanced slightly, but the quality was not up to previous years. Other decorating greens sold as well as other years. The retailers were prepared with enough artifical material to swing all orders and this season broke all records in the sale of this stuff. Plants went well and there was a good supply of all blooming and foliage stock. When a salesman cannot secure a cut flower order, a fine plant of some kind should be suggested. In the cut flower line there is much to be said. Quotations were high on everything although the highest mark was not reached except possibly on one or two items. There was

Continued on page 23

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Successor to JOHN I. RAYNOR
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OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
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106 WEST 28TH ST., NEW YORK
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ORCHIDS A SPECIALTY
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ROSES AND CARNATIONS		Last Half of Week ending Dec. 27 1913	First Half of Week beginning Dec. 29 Xmas Prices
American Beauty,	Special	50.00 to 75.00	50.00 to 75.00
" "	Fancy and Extra	10.00 to 50.00	20.00 to 50.00
" "	No. 1	1.00 to 20.00	10.00 to 20.00
Killarney,	Extra	5.00 to 15.00	8.00 to 12.00
	Ordinary	3.00 to 5.00	3.00 to 8.00
Richmond, Hillingdon,	Extra	10.00 to 20.00	10.00 to 20.00
	Ordinary	4.00 to 10.00	4.00 to 10.00
Maryland, Ward, Taft, Sunburst,	Extra	10.00 to 20.00	8.00 to 15.00
" " " "	Ordinary	4.00 to 10.00	3.00 to 8.00
Russell, Shawyer		10.00 to 20.00	12.00 to 20.00
Carnations,	Fancy Grade	4.00 to 6.00	3.00 to 8.00
	Ordinary	2.00 to 4.00	2.00 to 3.00

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Flower Market Reports

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sufficient stock on any line except medium priced Richmond and Pink Killarney. There were too many of the White Killarney of select grade to secure the high mark price. A fine lot of Bonsilene, Ward, Safrano, Milady and corsage flowers such as violets, lily of the valley, Roman hyacinths, daisies, sweet peas, etc., sold well. There was a slight shortage in colored carnations and an oversupply of white.

CHICAGO Christmas business generally was better than had been expected, especially in the city. The sunshine, early in the week, brought out more flowers than had seemed possible, and the city trade responded better, some report, than ever before. It was noticed, however, that prices on roses and carnations lowered from previous quotations and that stock, held back till the last did not sell so well. The amount of "pickled" stock was less than usual, or else was in the hands of fewer wholesalers, for it was not so much in evidence as heretofore. The long-stemmed American Beauties were mostly splendid stock and prices held up to the last, there being practically no medium lengths to draw from. Killarneys and Richmonds formed the bulk of the rose offerings, but there proved to be so many that prices, as quoted in advance, could not be maintained. As it is, the report still persists that many ice boxes contained quantities of roses after Christmas trade was over. Prices continued to decline till the end of the week, and the Monday after Christmas found the market very quiet. It is estimated that from two to three thousand American Beauties were shipped to this market from the east during Christmas week. Some arrived in good condition and were sold to advantage, while others were so bad as to be refused and returned to the shippers. One of the prominent retailers refused all of his, while another received Beauties which he says were the equal of the home-grown ones. On the whole, it is believed that there is considerable risk in handling eastern Beauties here.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Dec. 27 1913	First Half of Week beginning Dec. 29 Xmas Prices
Cattleyas	20.00 to 60.00	30.00 to 60.00
Cypripediums	10.00 to 15.00	12.00 to 15.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Callas	12.00 to 16.00	12.00 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	..... to	..... to .....
Violets	.50 to 1.50	.50 to 1.25
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	5.00 to 12.00	6.00 to 8.00
Gardenias	40.00 to 60.00	20.00 to 60.00
Adiantum	.75 to 1.00	.50 to .75
Smilax	6.00 to 8.00	6.00 to 8.00
Asparagus Plumosus, strings (per 100)	15.00 to 25.00	15.00 to 25.00
" " & Spren (100 bunches)	10.00 to 25.00	10.00 to 25.00

CINCINNATI Christmas business proved to be very good better than even the most optimistic had hoped for, when the business since Thanksgiving was taken into consideration. The local call was equal to that of last year, while shipping trade was very good. Everything in roses sold readily. Outside of Pink and White Killarney the offerings were very limited, both reds and American Beauties being away off crop. The cut of carnations was large and toward the close of Christmas business prices weakened considerably. The supply of white was more than equal to the demand. Narcissi were so plentiful that they yielded only a fair price. Their prices since Christmas have been better than at any time before or during the Christmas rush. Violets sold so well for Christmas that the supply ran short of the demand. Poinsettias sold well.

NEW YORK As we predicted two weeks ago, there was ample stock of all kinds at Christmas time to satisfy all demands—only more so. We will mention first the flowers that brought more than was expected. They were "Beauties," the best realizing $.75 and in a few isolated cases $1.00 each. Violets, which were in only a moderate supply, sold for $.75 and $1.00 per 100 and specials $1.25 and $1.50. Cattleyas went well with $.60 for the top with occasional sales at $.75, smaller and poorer grades selling at $.20 to $.35. Gardenias in sufficient supply to satisfy all demands, $.60 for the top grades down to $.20. The disappointment was in the decreased demand for red stock of any kind. Poinsettas were carried over everywhere and top notch on scarlet carnations was about $.10. Richmond roses of the smaller grades sold fairly well and the top grades would have gone better had the stock been good, but it was the old story of "pickling" and there were hundreds and hundreds of Richmonds carried over which were so soft and full blown that they were unsalable. This was the case with some of the top grades of the other varieties. When! oh when! will the grower learn the mistake of keeping up a practice that is proving so injurious to the florists' business at holiday time? Carnations were plentiful and other than red sold from $5.00 to $6.00 per hundred, but of course there were inferior grades that sold for much less. Lilies moved slowly; market overstocked. Lily of the valley did well. In roses, Killarneys, both white and pink, arrived in great quantities; smaller grades selling from $3 to $6, and special from $10 to $15. Sunburst, Aaron Ward and Hillingdon cleaned out nicely. French Trumpet narcissi, a limited supply. Daphne quite plentiful at $3.00 per dozen. Asparagus sold out well as there was very little Southern stock in evidence. The retailers all claim to have had a splendid business and to have sold out of plants of which they all had a big stock. Taken as a whole, the volume of business was very large with prices lower than previous years at the same time.

PHILADELPHIA The Christmas cut flower market in this city this year was all in favor of the retailer. The growers and their agents started out with a bold front and managed to get last year's prices in the early stages but later the situation changed and it was a hard fight for the growers to get anything like a decent price. The weather and all other conditions were such that the market was swamped with fine stock and the retailers took immediate advantage and beat down the prices. Top grade

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200,000 Giant Flowering Cyclamen Seedlings in six separate colors, our own grown strain. Seed only taken of Numberblossoms. From seed flats, August-sown, $2.50 per 100; $20.00 per 1000. Once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all packages. CHRIST. WINTERICH, Cyclamen Specialist, Defiance, O.

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PEAT

J. H. Sprague, Barnegat, N. J.
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PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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Shelf Brackets and Pipe Hangers.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POTASH

German Kali Works, Inc., New York City.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

POWER AND SPRAY PUMPS

C. J. Jager Co., Boston and Providence.
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RAFFIA

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New Red Rose, "Francis Scott Key."
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A. N. Pierson, Inc., Cromwell, Conn.
New Roses.
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Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

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California Seed Growers' Association,
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Braslan Seed Growers Co., San Jose, Cal.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
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SNAPDRAGONS

White Giant Snapdragons — Seedlings, $1.00 per 100; transplanted, $1.50 per 100; from 2¼-in. pots, $2.00 per 100. HENRY EICHHOLZ, Waynesboro, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.
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Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

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Henry F. Michell Co., Philadelphia, Pa.
Spiraea Clumps.
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STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

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DOUBLE PETUNIAS.

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NEW WINTER BLOOMING BEGONIA FLORENCE DAVENPORT.

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SEASONABLE SEEDS.

Burnett Bros., New York City.
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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

SITUATIONS WANTED

SITUATION WANTED by Gardener. Single, 29, life experience all branches. Strictly honest; don't drink or smoke; not afraid of work. A-1 references. Private place preferred. L. CRAGG, 152 East 7th St., Erie, Penna.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

In Writing Advertisers Kindly Mention HORTICULTURE

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

(Continued from page 32)

Beauties that started the game at $100 were being peddled in the street later at 15c apiece. Having a fine crop for Christmas is a splendid thing, provided all the other fellows don't have a fine crop also! Next to high grade Beauties the worst sufferers were probably white roses. Far too many of these. The price situation being thus it was fortunate that the volume of business held up as well as it did. There was not much but what found a market of some kind or other. So there is always something to be thankful for. The weather was especially favorable to the plant end of the business—stock getting to its destination safely in all cases, and orders being placed more freely than if weather had been severe. All the leading concerns report a clean sell-out and no kicks. In addition they did not suffer from any slump in prices like the cut flower growers. The greens market was very good also and a large amount of business was done. The scarcest item was good well-berried holly. The Christmas tree business has been dwindling for several years back and that condition was more pronounced than ever this year.

Summing it up as a whole it was a splendid Christmas—immense volume of business—and while cut flowers brought less, what they did bring was better distributed than usual. The trade in general has every reason to be thankful, all things considered.

ST. LOUIS The snow storm on Christmas morning hurt the local trade a great deal as far as the cut flower trade was concerned. The plant trade was fully up to expectations and at some of the places even more. Up to Christmas Eve trade was rushing and deliveries could be made without much wrapping, and it looked as though all records for Christmas business were to be broken, but the cold snow storm early Christmas morning killed that part of it. Plants of all kinds had a great sale, with poinsettias in pans as the leaders. These were quick sellers with fancy red sashes. Of other plants anything in bloom were good sellers. The cut flower demand was not so good as in former years and it looks as though year after year the plant trade for the holidays is getting the advantage on account for the enormously advanced prices charged for cut flowers. For New Year's there is not so much looked for in the plant line and cut flowers will sell better, prices being much cheaper. The market at the present time has enough for all demands—and with a little bright weather the market will be loaded with roses, carnations and bulbous stock. Violets are the one scarce item.

WASHINGTON The Christmas business proved very satisfactory, especially as but little was expected. Stock cleaned up well. It is said that the sale of potted azaleas, begonias and cyclamen exceeded that of last year and prices were good. There was somewhat of a scarcity of single violets, while the doubles were very plentiful. Those of the former that were to be had were of very good quality and were quickly bought up. As in previous years, the dealers ran short of red roses; the supply of red carnations was short, but in view of the prices asked they proved enough to supply the limited demand. Orchids were in larger supply than they have been and over 4,000 gardenias were sent into the market by a local grower. The call for American Beauty roses was very heavy and these cleaned up well. In view of the fact that immortelles have increased so in price, the marketmen offered red ruscus in their stead and with remarkably good results. The business for the year of 1913, taking it as a whole, was just as satisfactory as the Christmas trade. Looking forward to the next twelve months, the prospects appear good for a record-breaking period. What is needed is a settling of conditions, and now that Congress has disposed of so many important matters it is believed that the members and their families will have more time for entertaining and many belated affairs will take place.

MONTREAL Christmas business proved to be as good if not better than preceding years, notwithstanding the talk of a money stringency and the falling off of business generally the two weeks previous. All classes of stock cleaned up well and maintained good prices to the end. The retailers with few exceptions report "The best Christmas week ever."

The Gardeners' Chronicle, of London, for Dec. 13th shows illustrations of fourteen forms of Nephrolepis exaltata, eleven of which originated in America. The accompanying notes incorrectly state that the bi-pinnate form named N. e. Piersonii is known as the Boston Fern. Whatever may be the case in England the writer is mistaken as to the facts in this country where the original type has been known as the Boston fern, since long before Piersonii appeared, the latter being known as the Pierson fern.

APHICIDE POWDER
(FORMERLY THE FUMIGATING KIND)
KILLS ALL APHIS
$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.
WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU
If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back,
Mail Order Direct to Us.
THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.50
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW

POWER AND SPRAY PUMPS
OF ALL KINDS
A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.
C. J. JAGER COMPANY
13-15 Custom House Street Boston 33 Canal Street, Providence, R. I.

Whenever your Plants and Flowers are troubled by Insects, call for
NICOTICIDE
THE
INSECTICIDE
Manufactured by
P. R. Palethorpe Co., Inc.
CLARKSVILLE, TENN.

Don't Neglect Fall Spraying **"SCALECIDE"** Fall Spraying is Best

TRADE MARK REG. U. S. PAT. OFF.

"Scalecide" will positively destroy San Jose, Cottony Maple Scale, Pear Psylla, etc., without injury to the trees. Endorsed by Experiment Stations.

Our booklet, "Scalecide, the Tree Saver" proves our every assertion. Mailed free. B. G. Pratt Co., Dept. "12", 50 Church Street, New York City.

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements*,

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

WELL ROTTED HORSE MANURE

DRIED AND GROUND

For **MULCHING** it cannot be equaled, as it is nutritious, immediate, convenient and odorless.
Saves **LABOR** in preparing compost piles—always ready for mixing with soil for potted plants or soil for benches. It also makes a rich Liquid Manure. Promotes rapid steady growth. Put up in bags, 100 lbs. each

Descriptive folder and prices upon application.

SOLD BY

NEW YORK STABLE MANURE CO.

273 Washington St., - - Jersey City, N. J.

NICOTINE MFG. CO. ST. LOUIS U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**
APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., ∴ BEVERLY, MASS.

WORTH READING

Arthur Ruzicka, writing on "Rose Growing Under Glass," in "Horticulture," November 15, 1913, says:

"We have found that a good spray of FUNGINE will do away with all traces of mildew, and if applied in time will kill it so that many leaves will be saved. This fact is mentioned only for the good of the growers, and not to advertise the article, for this is no place for advertisements. We have so far heard of nothing that can compare with FUNGINE and that is why no other preparation is mentioned.

75c. per quart. $2.00 per gallon.

Have you tried NIKOTIANA and compared it with other nicotines for fumigating? If not, it will prove worth your while doing so, both from the point of efficiency and cost.

$1.50 per quart. $4.50 per gallon.

There is nothing "just as good" as APHINE for greenhouse spraying for all sap sucking insects—VERMINE for the soil to destroy eel, wire and cut worms without injury to vegetation—SCALINE for spraying fruit and ornamental trees NOW against San Jose and other scale, red spider and aphis larva.

All up-to-date seed firms and florists' supply houses handle our products.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

CANADIAN AGENTS: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

BRITISH DISTRIBUTORS: British and American Fertilizing Co., Liverpool, Eng.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

When writing to advertisers kindly mention HORTICULTURE.

JANUARY MEETINGS IN ST. LOUIS.

The St. Louis Florist Club will meet Thursday afternoon, January 8th, in Odd Fellows' Building. The trustees have provided for an interesting afternoon.

The County Growers' Association, which is composed of all florists in St. Louis County, Mo., will take place Wednesday, January 7th, at Nieman's Hall.

The Retail Florists' Association, of St. Louis, will meet on Monday night, January 19, at Beers' Hotel. The committees on so-called "Union" florists and "crepe pullers" will make their report and final action will be taken to eliminate these excrescences if it can be done.

The St. Louis Lady Florists' Home Circle will meet at the home of Mrs. Fred C. Weber on Wednesday afternoon, January 14th.

The Engelmann Botanical Club will meet the latter part of this month at the Missouri Botanical Garden.

CLUB AND SOCIETY NOTES.

Antoine Leuthy of Roslindale, Mass., will lecture at the meeting of the North Shore Horticultural Society, at Manchester-by-the-Sea on January 16.

At the annual meeting of the Oyster Bay (N. Y.) Horticultural Society, John T. Ingram was elected president; Alfred Walker, vice-president; H. G. Vail, treasurer; F. Kirkham, secretary; John Devine, financial secretary. The annual dinner will be held on January 29.

At the last meeting of the North Shore (Mass.) Horticultural Society, Alex. Cumming, Jr., of Cromwell, Conn., was the speaker, his subject being "Outdoor Roses," which he treated quite fully. Wednesday evening, January 21, has been selected as the date of the annual banquet, entertainment and dance at the Manchester Town Hall.

The Inaugural Meeting of the Massachusetts Horticultural Society for the year 1914 will be held at eleven o'clock, A. M., on Saturday, January 10, 1914, at Horticultural Hall, Boston. The business of the meeting will be the hearing of an inaugural address by the President, the report of the Board of Trustees, the reports of officers, and the reports of the chairmen of the various committees.

WILLIAM P. RICH, Sec'y.

The December meeting of the Rhode Island Horticultural Society was something of an innovation. The address of the evening, after a report from Prof. J. Franklin Collins as delegate to the National Conservation Congress and the American Pomological Society, was by Dr. Harlan H. York, assistant professor of botany of Brown University, and was upon the subject of the American mistletoe. At the conclusion of the lecture each individual present was given a large sprig of mistletoe, Dr. York having had a large case shipped from Texas for this occasion.

WASHINGTON NOTES.

The marriage is reported of Miss Rose Ponnet, daughter of the late Constance Ponnet, to Mr. Otto Dissi, of Richmond, Va. The young couple visited Washington on their honeymoon.

S. Miyake, of Miyake & Company, London, was in town last week showing a line of Japanese lily bulbs. This firm is located in Japan and has offices in this country.

The Florists' Club of Washington will hold its first meeting of the new year at 1214 F street, Northwest, on Tuesday evening, January 6, when a number of very important business matters will come up for consideration.

C. L. Marlatt, chairman of the Federal Horticultural Board, has directed the attention of the House of Representatives to the need of continuing the $35,000 appropriation to put into effect measures to prevent the Mediterranean fruit fly from coming from the Hawaiian Islands and elsewhere to the mainland of the United States. An expert sent by Hawaii to Africa has found three or four important parasites of the fruit fly and two or three of these are now established in the islands.

There is a possibility that the Commissioners of the District of Columbia will provide regulations prohibiting the use of public space for the display of goods and materials. This announcement is being favorably received by the retailers here as such a regulation would prohibit the setting up of temporary stands for the display and sale of flowers as is now the practice on the part of some of the street men. A hearing was recently given those concerned. There is some little opposition to the proposition, but a large number of marketmen are for it and the possibility of its going into effect is good.

Obituary

A. G. Hanna.

Anthony G. Hanna, formerly in the shoe manufacturing business but for the past four years in the florist trade, died at Holbrook, Mass., on December 30, aged 72 years.

Martin J. Sutton.

Martin John Sutton, head of the firm of Sutton & Sons, Reading, England, died at the Piccadilly Hotel, London, on Sunday, December 14. He was undergoing a minor dental operation and died under the anaesthetic. He was 64 years of age.

BUSINESS TROUBLES.

Des Moines, Iowa—E. A. Slininger has been appointed receiver for the W. K. Fletcher Bulb and Floral Co.

NEW INCORPORATIONS.

Paterson Floricultural Society, Paterson, N. J.

Providence, R. I.—William Hill has purchased the greenhouse establishment of the late J. F. Parks on Olney street.



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Providence, R. I.—D. P. Swanson & Bros., one house.

Mason City, Iowa—Kemble & Goodman, four houses.

Fresno, Cal.—Fancher Creek Nurseries, one house.

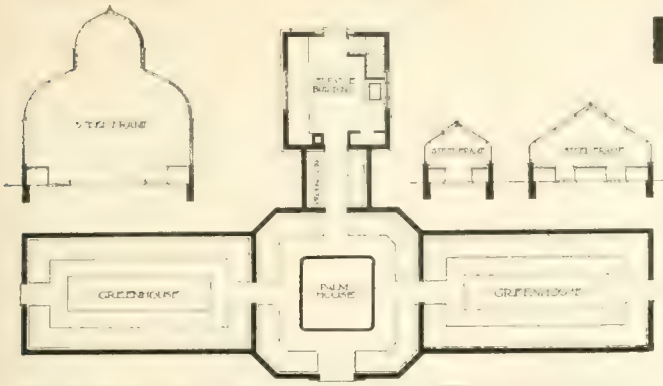
Grand Ledge, Mich.—Doty & Huggett, range of houses.

Greensboro, N. C.—Greensboro Floral Co., range of houses.

Portland, Ore.—A. L. Anderson, two houses, one 30 x 175 and one 30 x 160 feet.

Chisholm, Minn.—The contract for the erection of municipal greenhouses has been awarded to G. Anderson.

Belleville, Ont., Canada—Fire destroyed the floral conservatory belonging to Messrs. Givens & Son on December 19. Loss, $1,500 on flowers, no insurance.



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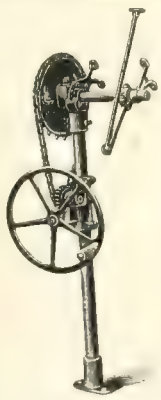
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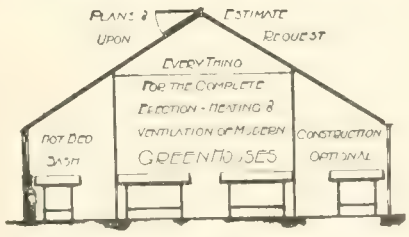
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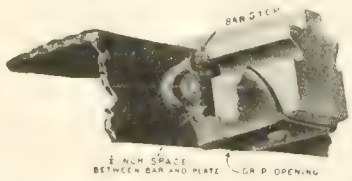
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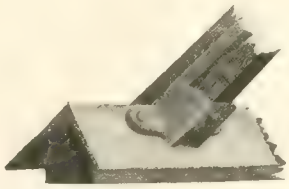
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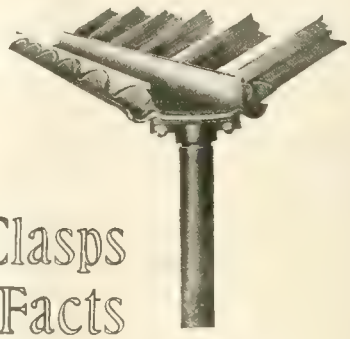
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HORTICULTURE

Vol. XIX JANUARY 10, 1914 No. 2

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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Chrysanthemums

Good flowers depend on an early start, especially in the case of dwarf, slow growing varieties. It is not at all unusual for a new thing to be condemned the first year because the buyer has propagated it late and to the utmost limit, and the plants have not had a chance to prove themselves. Stock plants should be brought up to the light at once, even if you have to throw something else out to do so. Plants cannot be expected to throw healthy cuttings if they are hidden away from the sunlight. Select only the best cuttings for use. Any that have become too long and are throwing a bud should be discarded. As soon as the cuttings have roots half an inch or so in length get them out right away and pot into soil. Many cuttings are permanently weakened by being left in the sand and allowed to make a weak, attenuated growth and long, spindly roots. If you have a regular propagating house facing north the cuttings will need little attention at this season of the year, after being watered in, but if you are propagating in a corner of one of your cut flower houses provision must be made to keep sun and drafts away so that the cuttings will not wilt and lose their vitality.

Fibrous-rooted Begonias

It is always better to sow any of these fibrous-rooted begonias early as they take quite some time to grow into saleable plants. They can be sown in pans that have been well drained, in new loam and leaf mold in equal parts with a fair dash of sand. Fill the pans to within half an inch of the top and on this place a little finely sifted compost and press moderately firm and water. When they have drained, sow the seed evenly over the surface. They do not need to be covered. Place glass and sheets of paper over the pans until the seedlings germinate. Then the pans can be placed in a house where they can have a temperature of about 60 degrees at night and they will soon grow into a nice size to pot into 2 or 2½ inch pots. The following are all good varieties to grow, Erfordii, Vernon in its several colors, Snow Queen, and semperflorens rosea, Fairy Queen and others, which are becoming increasingly popular as bedding plants.

Orchids

Give care and attention to Cœlogyne cristata from this out. Do not keep it in a too warm house. A temperature of about 50 to 52 degrees at night will give flowers of a better substance than when they are forced by too much heat. Give ventilation as often as the outside condition will permit and keep the compost in a nice moist state by giving water whenever they show dryness. These orchids are very free flowering and make very popular pot plants. Grown cool they can be had in bloom for the Easter trade.

In order to have Cattleya Schroederae, which is deservedly called the Easter cattleya, in good flower for that date they will want a temperature of from 55 to 60 degrees during the night, with a rise to 65 to 70 degrees with sunshine. On cloudy days about 60 degrees will do. Keep the air pure by timely ventilation and use care in watering at all times.

Primulas

The present is a suitable time to make a sowing of primula seed. Of course it is possible to make sowing several months hence and have plants of flowering size for the holidays, but the seeds germinate decidedly better at this season, and really strong plants are only to be had by starting early. It is always good policy to purchase seeds of a first-class strain. There are now quite a variety of separate colors obtainable, but pink, bright rose and crimson sell the best. Use a light compost consisting chiefly of leaf-mold, with plenty of fine sand and powdered charcoal. Large shallow pans are the best to sow the seed in. Drain the pans well, cover the seeds lightly and keep protected from sun and air until they germinate. Careful watering is essential. Place a piece of glass over the pans as it helps to keep the moisture better, and shade from the sun until the young seedlings begin to appear when they should be placed well up to the glass in a house where the temperature runs from 45 to 50 degrees.

Rambler Roses

All Ramblers intended for Easter should be placed in a cool house; one that runs about 45 degrees at night will do fine. After about two weeks you can raise them to 60 degrees and higher with sunshine Every morning give a good syringing so as to thoroughly dampen the wood. When they are encouraged to break and make some top growth the temperature can be raised to 55 degrees and in two or three weeks more to 60 degrees. Give them a place where they can have full sun for it is necessary for the perfect development of these roses in every way. Let the plants stand so that they will not be crowded, and they will be much more saleable at Easter. When they have made good top-growth and root action they should have liquid stimulants once in three or four days until the flowers are opening, when feeding should be discontinued, as it only has a tendency to take the color out of the flowers. Great care in the matter of ventilation will be necessary so as to avoid mildew. Give careful attention to fumigation to keep down green fly which is bound to make its appearance if not looked out for.

Value of Records

In order to run an up-to-date establishment you should adopt a rigid system of record-keeping so as to know exactly where you stand at the end of each week, month or year. This work may take time, but it is time well spent and will amply repay any one by leaving no doubt as to the merits and demerits of each and every variety that you may grow. Keep a card in each house and every bloom cut can be entered under its own heading. All these records will be of great utility for future reference.

Mr. Farrell's next notes will be on the following: Bougainvilleas; Candytuft for Memorial Day; Easter Hydrangeas; Gladioli; Propagating; Salvias.

MONKSHOODS AND THEIR VALUE FOR THE GARDEN

Aconitums have long occupied a permanent place as tenants of our ancestors' gardens. By virtue of their ornamentality and their hardiness they claim equal consideration for the present and future. Associated with the yellow shades of helianthus and rudbeckias, the whites of Pyrethrum uliginosum, Shasta daisies, white varieties of Japanese anemones, the panicles of Artemisia lactiflora, Spiraea aruncus or white hardy phloxes their bright blue and deep purple spikes add to the beauty of August, September and October effects of our herbaceous plantations. Clumps of tall robust growing aconitums are extremely handsome when mixed into the shrub border. Here they contrast well with the white trusses of Hydrangea arborescens as well as Hydrangea paniculata grandiflora.

Most of the popular species of monkshoods belong to the tuberous rooted section. Their dark carrot-like roots are deadly poisonous and for this reason should be kept out of kitchen gardens. Best known is Aconitum napellus, dark purple, and A. napellus bicolor, blue and white. The latter is the best variety for cutting. The white of A. napellus album so far is lacking in purity. Aconitum napellus praecox produces long loosely built panicles of bright dark blue which appear during June and July. The darkest of all the blue monkshoods is Sparks' variety with stems 5 to 6 feet tall, flowering during July and August. The best yellow flowering sort is Aconitum Lycoctonum bearing dense spikes of a pale but clear tint. Aconitum Stroekianum, a tall growing type doing beautifully in New England states, is distinguished by densely set flowers of a rich deep blue. Of the late-flowering monkshoods well adapted for the Middle Atlantic States I mention Aconitum Fisheri, 1½ to 2 feet high, pale blue; Aconitum autumnale, deep bright blue and, last but not least, the strong growing light violet blue introduction from northern China, Aconitum Wilsoni.

Monkshoods thrive well in a rather light loam, richly manured. For the middle Atlantic and Central districts a half-shady position is a necessity, while for the North the open sunny exposure I deem more advisable. The result of transplanting is a lower growth the following season. For full development plantations should be left undisturbed for a number of years. To attain the stately height of from 6 to 8 feet requires a well established root system. The species of the genus Aconitum are numerous. There is a wide difference between the tall erect habit of A. exaltum and the climbing vines of A. Hemsleyanum. Many representatives are only of interest to the botanists and collectors. Others resemble each other very closely. The selection offered by the trade is a hardy plant material which, if skillfully employed and properly cared for, will prove invaluable for those of us aiming for both richness and beauty in floral garden effects. As mentioned in previous notes Aconitums merit more recognition and increased space in American gardens.



ACONITUM STROEKIANUM

Richard Rothe

Riverton, N. J.

Cover Illustration

Our cover illustration this week is a view in the rhododendron dell in Highland Park, Rochester, N. Y. The Rochester Park Commission has just been awarded the George Robert White Medal of Honor in recognition of its successful efforts in establishing one of the most important collections of trees in America, in increasing love of plants and horticulture among the people of Rochester, and in exploring the flora of western New York and of adjacent regions, as announced in our last week's issue. The picture was intended to accompany that announcement but was not ready in time.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Růžička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Buying Some Novelties

If you have been shipping to one commission man for quite a long time he or his firm will be glad to advise you which of the novelties are very likely to take a hold in the market, the coming season. Few of the firms that distribute the new varieties would do so unless they were sure that they are all right, for, to take a chance at any thing that would sell, would soon put these firms out of business. Before buying any of the new roses, see them growing and study the conditions under which they are growing so well. Then go over your own place and see if your own houses could be made to give the same. If this is so there is no reason why you should not succeed. Now for the buying part. It will be better to buy the plants in small pots than to buy the wood or the rooted cuttings, especially if they have to be shipped a long distance. The express or parcels post degree will not be any too good for them, and the plants will stand it a great deal better. As soon as they arrive pot them up at once into nice clean pots, preferably the same size pots that they had been in, unless they are very well rooted, when they can receive a larger size. We find that the plants will start off much better if not put into pots that are too large for them. As soon as they start, and the roots work around so as to hold the ball firm, they can then be shifted into larger pots, and receive the same treatment that other plants would under like circumstances.

Winter Syringing

With cold weather here, syringing should be done as soon as the houses run up a little in the morning, and only on nice clear days, when the plants will have plenty of chance to dry before the night comes. Do not try to keep the houses warm by shutting down the ventilators and keeping them so all morning; ventilate as usual, and if it is necessary, keep a pipe of steam on all the time. If no steam is to be had, shut off all the hot water pipes, save one flow and return, and then keep the boiler on the move a little bit. The object of closing all the pipes is to get a better circulation with less fire, as it would require a good fire to circulate the water in all the pipes. Where the pipes are laid very good it will not be difficult to keep the water going without a strong fire.

Using Lime

Do not neglect to blow plenty of air-slacked lime underneath the plants as soon as the day draws to a close. This should be done after each syringing or after each watering. It will help dry out the air around the plants and by so doing will help prevent blackspot, also prove distasteful to many of the insects that inhabit the benches around the roots of the plants.

Soil for Potting

If this is exposed to the weather, it will be advisable to bring some of it under cover now so that it will have a chance to dry out before it will be used. Dry soil can be mixed very easily, and if it is then necessary it can easily be moistened to the proper degree. If time permits screen it as soon as it is dry enough, and it will then be ready to use at any time. A little bone meal is an excellent fertilizer to mix into the soil. A little soot is very good, too, but the quantity used should be very small especially if a considerable amount of bone is used. There is a reason for this in the fact that the lime in the bone would set the ammonia in the soot free, and it would be likely to do some damage to the roots of the plants.

Leaf Mold

Although it is not used as much as it used to be in the days gone by, there is still a large amount of it used here and there all through the country. We like to use a little leaf mold for the first potting, especially if the soil is rather heavy. It helps to open it and thus insures good drainage, and also gives the air a chance to get into the soil thus heating it to almost the same temperature as the air surrounding, which will greatly help to promote root growth.

The Cold Weather

Although the weather has been remarkably warm up to this time, there is no reason why you should allow your coal bin to get empty. There is nothing to promise us this weather in the future, and should it turn out to be the same as the winter of 1911-1912 then we would be up against it if we were not prepared. Better get your coal so as to have a cellar full all the time.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

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A word for New York

Only ten weeks until the New York International Flower Show will open its doors. Much must be done in the meantime if this important affair is to attain the proportions and the surpassing success which all are so anxious that it should attain. While this enterprise is, in a way, localized, and while its projectors have made no effort to extend the guarantee subscription beyond the immediate neighborhood of New York, yet the entire horticultural fraternity of the country have something at stake and will, directly or indirectly, gain or lose something according to whether it is or is not a success. So it behooves all who can to extend such support as is in their power to this supreme effort of their fellow-horticulturists in the great metropolis. Even if it does entail some sacrifice, make an exhibit in one or the other department, competitive or trade, and when it comes your turn to look for supporters and allies you will find that New York will not forget her friends.

The carnation meeting

The American Carnation Society showed wisdom in selecting Cleveland as the place for its mid-winter meeting and exhibition this year. It is very centrally located for a large territory in which carnation culture is carried on extensively and there can be no question of a splendid exhibition, with a good sprinkling of interesting novelties. We hope our readers will note what President Brown of the American Carnation Society has to say on another page of this paper. HORTICULTURE recognizes in the instituting of table decorations to demonstrate the decorative qualities of the new varieties and the abilities of the Cleveland retail florists, an innovation of double significance and far-reaching effect. It is in line with what HORTICULTURE has preached incessantly for years, as our readers know. As to Cleveland's part, otherwise, in the meeting, the florists of that city have on all such occasions shown fine proficiency in the preparatory arrangements and in the art of entertaining their visitors. We expect to see a large and enthusiastic meeting and a much needed liberal addition of new young blood to the membership list this year.

The gardener in the S. A. F.

F. E. Palmer's communication on the status of the so-called "private" gardener, which appears in this issue, brings to the front an old vexed question but, although quite in accord with Mr. Palmer's ideas on the subject, we doubt if much will be gained by its discussion now. As to the intent of the founders of the S. A. F. it will only be necessary to quote from the original prospectus the following:

"Who are eligible—All Florists—professional or amateur—Gardeners, Seedsmen, Nurserymen, Superintendents of Parks, Manufacturers of Heating Apparatus, Greenhouse Builders and Dealers in Florists' Supplies in the United States and Canada shall be eligible to membership in this Society."

Broad enough surely. As to how this principle has been carried out, a reference to the records will show that non-commercial gardeners have been, in proportion to their small representation on the membership list, repeatedly honored with positions of official responsibility and on the programs of speakers and one of their number is this year the honored president of the Society. As Mr. Palmer rightly claims, the influence of the S. A. F. has at all times been exerted on lines of usefulness to the common welfare and all the craft, whether commercial or non-commercial, are co-beneficiaries in whatever the national society has achieved for the advancement of horticulture in America.

PRIVATE, PROFESSIONAL OR COMMERCIAL—WHICH?

Editor of Horticulture:

Dear Sir:

In the course of conversation with a member of the G. & F. Club of Boston at its last meeting, some sentiments were expressed and assertions made by him which the writer feels are worthy of wider consideration and discussion. The subject naturally related to the forthcoming S. A. F. Convention and ramified into many side issues more or less pertinent to the question. In view of the fact that the member referred to is one of the most thoughtful and representative men in the Club and in the private gardener fraternity, it is fair to assume that he voices more or less accurately the sentiment of that branch of the profession. Furthermore, in justice to him as a critic, it may be said that through years of devoted service and liberal giving he has earned a right to the utmost freedom of expression.

His contention, briefly, is that the S. A. F. is essentially a commercial body, that it has never done anything for the private gardener as such and, consequently, that the latter should not be expected to bear the brunt of its entertainment. Aside from the question of fact, the subsidiary questions arose as to; What is a "private gardener?" Wherein does he differ from a "commercial gardener?" and if the S. A. F. has not been helpful to him, why not? In a mixed membership of "Privates" and "Commercials," such as exists in the G. & F. Club in Boston, one can readily observe the segregation into separate camps of the two branches and that the active agent in creating and maintaining this division is invariably the private gardener. It does not require a very astute observer to discover that one reason at least for this attitude of mind lies in the time-honored superstition that the private-gardener belongs in the amateur class and as such has a kind of superiority over his more "mercenary" brother. No doubt, the confusion of terms "private" and "amateur" has much to do with this quite unwarranted assumption. There is little hope that the proposed change from "private" to "professional" will help matters much, as the latter term will, no doubt, be used in its classic sense and still serve to differentiate the two branches.

To prove among other things that the S. A. F. was not intended as a benefit to the "private gardener," my friend pointed to the very name itself as evidence. The fatal word "Florist" had been installed and no private gardener need apply. Here, with regard to terms, again, while the word "commercial" is, in the mind of the private gardener, bad enough, "florist" is intolerable and so both in the S. A. F. and our own G. & F. Club of Boston, this poor, innocent, little word has set up an almost insuperable difficulty. As a matter of fact, there is no essential difference between the gardener who grows plants and flowers for one patron and he who caters in a similar way to many; certainly the under-men in both cases fill positions practically alike. The former is a professional gardener working for a living just as much as the latter and is in no sense an amateur. He places before his one patron the best and newest thing in horticulture, he studies landscape gardening, the arrangements of greenhouses, etc., just as his "commercial" brother does in serving his more numerous customers.

They both do it for profit; the fact that one has a fixed income and the other a variable one does not affect the question. In fact even in that respect, the "private gardener" is always aiming at increased income either through efficiency or opportunity, or both. Seeing then, that the "private gardener" is just as commercial both in instinct and endeavor as his "commercial" brother, the writer fails to see any reason why the S. A. F., if it is valuable to one, is not equally so to the other. If it has not proved so, it may be fairly suspected that the fault lies with the private gardener rather than the S. A. F.

There is no doubt that the name of the Society was unfortunately chosen and has militated against its growth and usefulness and will continue to do so. The fact remains, however, that it has been and is a splendid organization. It deserves the support of every one engaged in the profession of Horticulture and with this freely given and with possibly a new name and the inclusion of all subsidiary associations within its fold, there will be talent and material sufficient to make it the largest and finest Horticultural Society in the world.

Yours very truly,

F. E. Palmer

Brookline, Mass.

BOOMING THE PANAMA-PACIFIC.

George A. Dennison, Chief of the Department of Horticulture at the Panama-Pacific International Exposition, sends us a very sanguine communication concerning the outlook in his Department.

As an evidence of the zeal with which the advisory committee is going at the work, he gives the following brief quotations from their several letters in which they accepted the onerous and taxing duties of the position.

A. F. J. Baur, secretary of the American Carnation Society, writes:

"I shall be active in every way where I can [illegible] meeting place, etc., etc."

J. P. Brown, International Society of Arboriculture:

"I will assist in the management in any way that I can. [illegible] international juror by President Francis."

Harry A. Bunyard, secretary American Sweet Pea Society:

"I have brought the matter of having our society take part in the exposition before the convention in Boston. The question was laid over until 1914. It is quite probable, however, that we will [illegible] invitation at that time and accept the same."

M. C. Ebel, secretary National Association of Gardeners:

"I pledge myself to do what I can to further the interests of horticulture and floriculture and shall continue to try and further the interests of the Exposition among the gardening fraternity."

L. Merton Gage, American Gladiolus Society:

"I shall be active in every way where I [illegible] meeting place, etc., etc."

L. A. Goodman, President American Pomological Society, Kansas City:

"I will [illegible] the cause and will try to bring the meeting to your city."

Frank E. Gorrell, secretary National Canners' Association:

"I will make every possible effort in trying to make the Exposition a success."

Fred E. Grover, secretary National Association of Retail Nurserymen:

". . . I will use such influence as I [illegible] exhibit."

Benj. Hammond, secretary of the American Rose Society:

"I will come to San Francisco and do whatever I can in the meantime."

H. C. Irish, secretary National Council of Horticulture:

"I assure you of my earnest co-operation in furthering a great horticultural exhibit."

C. W. Johnson, secretary Chrysanthemum Society of America:

"I will do all in my power to further the interests of the Exposition and shall be pleased to serve you in any capacity."

C. E. Kendel, secretary American Seed Trade Association:

"Will assist in bringing the World's Seed Trade Convention to your city, and I regard the appointment on your advisory committee as not only an honor but a duty."

J. P. Pilkington, American Association of Nurserymen:

"I will be pleased to serve in any way [illegible]"

Charles H. Totty, chairman, New York Flower Show:

"I will serve you in any capacity that you may name, and will do all the publicity promoting within my power."

John Young, secretary American Florists and Ornamental Horticulturists:

"Please do not hesitate to call on me at any time, as I will always be ready to assist in bringing about a successful floricultural exhibit."

And from the following came formal replies of acceptance coupled with expressions of good will which have since been exhibited in vigorous, effective and enthusiastic support and achievement: C. P. Close, secretary Society for Horticultural Science; David Fairchild, president American Breeders' Association; J. B. Wight, secretary National Nut Growers' Association; Mrs. Charles H. Maynard, secretary Ladies' Society of American Florists; Dr. J. R. Wilson, ex-secretary National Nut Growers Association, and Bertrand H. Farr, president American Peony Society.

A NEW AZALEA.

A. Schultheis, of College Point, N. Y., is enthusiastic over the appearance in his place of a unique sport from Azalea Mme. Petrick. There is a European sport from Mme. Petrick on the market, but this is quite distinct from it, the color, resembling that of Vervaeneana, being much more vivid and pure in all lights—natural or artificial—and the habit equally desirable. In the myriads of azaleas handled by Mr. Schultheis during his long business career this is the first sport that has appeared and it certainly looks like a good one.

AMERICAN CARNATION SOCIETY.

ANNUAL MEETING AND EXHIBITION.

More than ordinary interest should attach to the Annual Meeting and Exhibition of the American Carnation Society to be held in the Hotel Statler, Cleveland, Ohio, on Wednesday and Thursday, January 28th and 29th next. The geographical location of Cleveland is central, suiting the florists of both East and West. Judging from the program now nearing completion, the business sessions will be productive of much information of value to carnation growers.

The Exhibition which is to be staged in the large ballroom of the hotel will, it is expected, be larger than any of its predecessors and will embody some new features. A distinctly new feature will be a series of table decorations, demonstrating the decorative qualities of the new varieties of carnations being disseminated this year. Each disseminator has been asked to furnish 150 to 200 flowers for this especial purpose, and the necessary greens, accessories and other material required will be furnished by local florists, who will also undertake the decorations.

The tables will not be in competition for any honors, being merely demonstrations of the artistic ability of the Cleveland retail florist. By using the new varieties of carnation in this way, it is hoped the public of Cleveland will become familiar with the names and qualities of the new introductions—a result that could not be other than to the advantage of the trade in general.

The Exhibition will be open to the public at certain hours, admission to be free and only by the official card of admission sent out for the occasion. As the display will be of particular interest to retail florists as well as growers, it is hoped that there will be a good attendance on the part of the trade within a convenient distance from Cleveland.

R. T. BROWN, Pres.

Queens, N. Y.

Premium List for Twenty-third Annual Exhibition to Be Held at Cleveland, Ohio, January 28-29, 1914.

SECTION A.

Open to All Varieties, Seedlings and Standard Sorts.

Class 1. Vase 100 blooms White, 1st, $10; 2nd, $6.

Class 2. Vase 100 blooms Flesh Pink, being those shades of flesh or salmon color, 1st, $10; 2nd, $6.

Class 3. Vase 100 blooms Light Pink, being those shades of pink verging on the true pink and not lighter than Gloriosa, nor darker than Mrs. C. W. Ward, 1st, $10; 2nd, $6.

Class 4. Vase 100 blooms Dark Pink, being darker than Mrs. C. W. Ward and including all so-called cerise not dark enough to be classed as red, 1st, $10; 2nd, $6.

Class 5. Vase 100 blooms Red or Scarlet, to include all shades generally included in those colors, 1st, $10; 2nd, $6.

Class 6. Vase 100 blooms Crimson, to cover those shades known as crimson or maroon, 1st, $10; 2nd, $6.

Class 7. Vase 100 blooms Yellow or Yellow Variegated, 1st, $10; 2nd, $6.

Class 8. Vase 100 blooms White Variegated, 1st, $10; 2nd, $6.

Class 9. Vase 100 blooms Any Other Color, to include any other color decidedly distinct from colors specified above, 1st, $10; 2nd, $6.

Sweepstakes.

For sweepstakes in Section A, see Section F for special premiums.

SECTION B.

Open to All Varieties Disseminated Prior to July, 1913. 50 Blooms to Each Vase.

Class 10. White Perfection, 1st, $5; 2nd, $3.

Class 11. White Enchantress, 1st, $5; 2nd, $3.

Class 12. White Wonder, 1st, $5; 2nd, $3.

Class 13. Any Other White, 1st, $5; 2nd, $3.

Class 14. Enchantress, 1st, $5; 2nd, $3.

Class 15. Pink Delight, 1st, $5; 2nd, $3.

Class 16. Any Other Flesh Pink, 1st, $5; 2nd, $3.

Class 17. Mrs. C. W. Ward, 1st, $5; 2nd, $3.

Class 18. Gloriosa, 1st, $5; 2nd, $3.

Class 19. Any Other Light Pink, 1st, $5; 2nd, $3.

Class 20. Rosette, 1st, $5; 2nd, $3.

Class 21. Any Other Dark Pink, 1st, $5; 2nd, $3.

Class 22. Beacon, 1st, $5; 2nd, $3.

Class 23. Victory, 1st, $5; 2nd, $3.

Class 24. Any Other Scarlet, 1st, $5; 2nd, $3.

Class 25. Harry Fenn, 1st, $5; 2nd, $3.

Class 26. Any Other Crimson, 1st, $5; 2nd, $3.

Class 27. Benora, 1st, $5; 2nd, $3.

Class 28. Any Other White, Variegated, 1st, $5; 2nd, $3.

Class 29. Any Yellow or Yellow Variegated, 1st, $5; 2nd, $3.

Class 30. Any other color, same as class 9, 1st, $5; 2nd, $3.

SECTION C.

For Varieties Disseminated in the Season of 1912-13 50 Blooms to Each Vase

Class 31. Enchantress Supreme, premium offered by Dailledouze Bros., 1st $6; 2nd $4.00.

Class 32. Wm. Eccles, premium offered by Scott Bros., 1st $6; 2nd $4.00.

Class 33. The Herald, premium offered by Chicago Carnation Co., 1st $6; 2nd $4.00.

Class 34. Yellow Prince, premium offered by F. Dorner & Sons' Co., 1st $6; 2nd $4.00.

Class 35. Yellowstone, premium offered by F. Dorner & Sons' Co., 1st $6; 2nd $4.00.

Class 36. Commodore, premium offered by the E. G. Hill Co., 1st $6; 2nd $4.00.

Class 37. Salmon Beauty, premium offered by F. B. Abrams, 1st $6; 2nd $4.00.

Class 38. Eureka, premium offered by L. C. Midgley, 1st $6; 2nd $4.00.

SECTION D.

The American Carnation Society Medals.

Class 39. A gold medal will be awarded to the best vase of 100 blooms of any variety. Must score not less than 90 points.

A silver medal will be awarded to the second best vase in this class. Must score not less than 88 points.

A bronze medal will be awarded to the third best vase in this class. Must score not less than 86 points.

Blooms must be staged in the society's vases until judging is finished. After the awards have been made, flowers may be changed to other vases if desired.

SPECIAL SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS MEDALS.

For Undisseminated Varieties of American Origin.

Class 40. A silver medal will be awarded to the best vase of 50 blooms, any color. Must score not less than 88 points.

A bronze medal will be awarded to the second best vase in this class. Must score not less than 86 points.

FRED DORNER MEMORIAL MEDAL.

This Medal is Offered Under the Following Conditions:

Class 41. A gold medal will be awarded to the best 100 blooms of any undisseminated seedling carnation (sports not admissible). The variety must have been in cultivation not less than three years and must score not less than 85 points, judged by the American Carnation Society's scale of points. The medal to be awarded to the originator, who need not necessarily be the exhibitor, and can be awarded to the same variety only once. To be eligible to compete for this medal, 50 blooms of the variety must have been shown at a previous exhibition of the American Carnation Society in a preliminary class and scored not less than 80 points. The following varieties have qualified and are eligible to compete for the medal this year: "Matchless," by Cottage Gardens Co., Queens, N. Y.; "Gorgeous," by Peter Fisher, Ellis, Mass.; "Princess Dagmar," by Patten & Co., Tewksbury, Mass.

Class 42. A preliminary competition will be conducted at this exhibition for eligibility to compete for the medal next year. Fifty blooms must be shown of any undisseminated seedling variety.

SECTION E.

Certificate of Merit.

Class 43. New, or undisseminated varieties may enter for this Certificate of Merit under the following conditions: A variety may be entered under a name or number, but a name must be furnished before a certificate will be issued. An entry fee of $5.00 will be charged for each variety entered when entry is made. Not less than 50 blooms must be shown and the variety must have been bloomed not less than three years. To receive a Certificate of Merit, a variety must score eighty-five or more points. Varieties may be staged and judged in this class at any time during the convention. A vase of a variety competing in an open class may also be entered for Certificate of Merit. In all other respects, except as stated above, the rules governing the general classes must be observed.

Preliminary Certificate.

Class 44. This may be competed for by a two-year-old variety. Twelve blooms must be shown, and a $2.00 entry fee will be charged for each variety entered. The variety must be properly labeled under name or number. It must score not less than 85 points and may be staged and judged at any time during the convention.

SECTION F.

Special Premiums.

Class 45. A silver cup, valued at $50.00, is offered by Thos. W. Lawson for the best vase arrangement of not less than 100 nor more than 200 blooms. Other foliage, cut or in pots, may be used.

Class 46. $10.00 in gold will be awarded to the vase of carnations which holds in best condition to the end of the exhibition. Premium contributed by F. Burki.

A silver cup, valued at $20.00, is offered by Hitchings & Co. as a sweepstakes prize in Section A. (No entry required for this.)

NON-COMPETITIVE EXHIBITS.

Space Will Be Provided for Non-competitive Exhibits.

Retailers are especially invited to avail themselves of this opportunity to show made-up work in various forms.

Where special location, or special arrangement of tables is desired, application must be made to the superintedent of the exhibition not later than two days before the opening of the exhibition.

A. F. J. BAUR, Secretary.

Indianapolis, Ind.

NEW YORK TO CLEVELAND.

The New York party for the American Carnation Society's meeting at Cleveland will leave the New York Central Station on the 6.45 P. M., train on Tuesday, January 27th, arriving at Cleveland, Wednesday morning at 7.35

Providence, R. I.—Announcement is made that Mrs. Elizabeth O'Connor has donated $5000 to St. Joseph's Hospital in memory of her husband, Timothy O'Connor. The donation carries the stipulation that it shall be used to establish a free bed in that institution. Mr. O'Connor for half a century was a leading florist of Providence.

ROSE "MRS. GEO. SHAWYER"

North! East! South and West! the word comes back to us—"Finest Rose we ever handled!" The color holds in winter when the Killarneys bleach almost to white. We have five thousand plants that have been carried over and are now starting off splendidly. Why not remove those poor plants and replant with Shawyer, which we guarantee will give you a wonderful spring and summer crop.

Immediate Delivery, 2 1-2 in. plants, $20.00 hundred; $150.00 thousand

CHARLES H. TOTTY, MADISON, N. J.

BRECK-ROBINSON NURSERIES

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A large and complete assortment of
Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

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PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

Nurserymen and Florists, RUTHERFORD, N. J.

U-GET-A SQUARE DEAL
FROM THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

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Try our new **GERANIUM SCARLET BEDDER** for your Garden and Window boxes. Then procure a copy of **CHRYSANTHEMUM MANUAL** 3rd edition as a guide for growing your **CHRYSANTHEMUMS.** 50c. postpaid. Ask for our 1913 **CATALOGUE** and place your order with us for your plants, which will have our best attention.

Then procure our **FERTILENE,** the **IDEAL PLANT** food for producing Lusty blooms. Price.—½ lb., 20c; prepaid by mail, 30c; 1 lb., 35c; prepaid by mail, 50c; 10 lbs., $3.00; 25 lbs., $6.00; 50 lbs., $10.00.

ELMER D. SMITH & CO. - - - ADRIAN, MICH.

EVERGREENS FOR IMMEDIATE EFFECT — **JAPANESE MAPLES IN POTS**
Potted Strawberries our OWN GROWING — **Roses from 6-INCH pots**

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Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

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HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

HORTICULTURAL SOCIETY OF NEW YORK.

The monthly exhibitions begin with that of Saturday, January 17th, which will be held at the American Museum of Natural History. Prizes are offered for orchids, carnations, and sweet peas. The exhibition committee has the power to award prizes for special exhibits not provided for in the schedule. All are therefore invited to exhibit what they may have of interest—a well-grown plant, a rare flower, or something unusual. Schedules are now ready and will be sent on application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City.

A meeting of the society will be held at the same place at 3.45 of the same afternoon, followed at 4 o'clock by a lecture by Edwin Jenkins of Lenox, Mass., on "Sweet Peas." The mere announcement of Mr. Jenkins as a lecturer on this subject should insure a good attendance, for he is an enthusiatic admirer of this popular flower, and can tell us many of the finer points involved in its successful cultivation.

GEORGE V. NASH, Secretary.

Boston, Mass.—Paul Brigham has recently leased the Westboro Greenhouses, formerly occupied by Midgeley & Draper. These houses have been devoted mostly to the culture of carnations.

FARQUHAR'S

1914 CATALOGUE

CONTAINS

MORE GENUINE NOVELTIES

THAN ANY OTHER

A Copy Will Be Mailed Free on Application

R. & J. FARQUHAR & CO.,

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I now offer this tested strain for the first time, in two distinct colors — **Pure White** and **Golden Yellow.** This novelty has been grown and developed for the past ten years by me and has proved to be continuous and profitable **Winter Bloomers,** producing a reliable mid-winter cut-flower crop.

Well rooted cuttings $10.00 per 100, *to the trade only.* Stock limited. Orders booked now, for deliveries in rotation after March 1st.

H. HUEBNER, Groton, Mass.

Clubs and Societies

LENOX HORTICULTURAL SOCIETY.

The regular monthly meeting of the above Society was held in the town hall, Lenox, Mass., on Saturday evening, Jan. 3rd. The chief business was the altering of the by-laws to provide that the Society hold its annual meeting in November instead of December. Two exhibitions will be held this year, but the summer show will be held on July 22nd and 23rd instead of the same dates in August as has always been the custom in previous years. The reason for the alteration is to have more classes for sweet peas, as the other show was rather late for them. The dates for the fall show are Oct. 22nd and 23rd. The following prizes have been donated: C. H. Totty, $15 for new chrysanthemum James Frazer, J. M. Thorburn & Co., silver cup for collection of twelve varieties of vegetables; Knight & Struck, $10 for any class the Society likes to offer it for; Stumpp & Walter Co., $10 for same. The date for the annual ball is Feb. 6.

JOHN MAIR, Asst. Sec.

Inspector's Report on Lenox Show.

Athol, Mass., November 1, 1913.
Wilfrid Wheeler, Esq., Secretary State Board of Agriculture, Boston, Mass.

Dear Sir: It was my pleasure to visit the annual August exhibition of the Lenox Horticultural Society, but because of sickness was unable to be present in October I have nothing but good things to say of the summer show. Every courtesy was shown me by the officers, making the visit enjoyable. It was said the exhibit of flowers was not as large as in former years, owing, no doubt, to the drought of the season; while the quantity of flowers was small, the quality was high as the hall was well filled with vegetables and flowers.

In the vegetable classes there was a fine display. I have never seen better, and there was much higher interest in the awards by growers, than in the flower classes. There was a fine exhibit of hothouse grapes. The school exhibit of flowers and vegetables, although small, was very creditable and worthy of high compliments. Respectfully submitted,

(Signed) ALBERT ELLSWORTH,
Inspector

FLORISTS' CLUB OF PHILADELPHIA.

The meeting on Tuesday evening last was known as "Rose Night." The chief exhibitors at this meeting were as follows: A. Doemling, Lansdowne, Pa.; a very fine lot of roses, one vase each of Radiance, Milady, Queen and Mrs. Russell. The last named variety was exceptionally good in color and stem. A. N. Pierson Co., Cromwell, Conn.; new rose Hadley, which created a very good impression. Stephen Mortenson, Southampton, Pa.; double White Killarney, all very fine blooms. Joseph Heacock Co., Roelofs, Pa., Pink Killarney, White Killarney, Radiance and Richmond. George Burton, Wyndmoor, Pa., new sport from My Maryland, named "Aurora," a good light pink, and very fragrant. John Stephenson's Sons, Oak Lane, Phila., Sunburst; well grown. A. Farenwald, Roslyn, Pa., Mrs. George Shawyer, showing remarkable growth and good color. W. A. Leonard, Lansdowne, Pa., Double White Killarney. Robert Scott & Sons, Sharon Hill, Pa., Killarney Brilliant; good color and very good foliage.

Adolf Farenwald gave a talk on "Affiliation." There was quite a discussion following the reading of this paper, but the consensus of opinion seemed to be that affiliation between the S. A. F. and the Florists' Clubs would not get through as proposed, at present.

The February meeting will be "Carnation Night," at which time exhibits of new and choice carnations are invited. The essay committee announced that they will have a very prominent carnation man to talk to us on that evening.

SOCIETY OF AMERICAN FLORISTS

Department of Plant Registration.

Public notice is hereby given that as no objection has been received or filed to the registration of the chrysanthemum, "Mary Ellen," by Frederick Lagerstam, Belle Haven, Greenwich, Connecticut, and the Chrysanthemum, "Lena Baum," by Charles L. Baum of Knoxville, Tenn., and the Begonia, "Florence Davenport," by Alfred Davenport, Watertown, Mass., the same become complete.

JOHN YOUNG, Sec'y.
December 27, 1913.

"Get them at Dreer's"



The Dreer Strain of Double Petunias

For nearly half a century the majority of the growers in the United States have been depending on the Dreer strain of Double Petunias, which this season compares favorably with stock we have heretofore supplied.

We offer for immediate delivery, good three inch pots, which will quickly furnish a good supply of cuttings, in fifteen varieties, 75 cents per dozen; $6.00 per 100, or the set of fifteen varieties, one of each, $1.00.

DOUBLE WHITE PETUNIA SNOW BALL

We have a large stock of this variety which is so useful for summer cutting, 3 inch pots, 75 cents per dozen; $6.00 per 100.

Seed of our **SUPERB STRAIN OF FRINGED PETUNIAS.** Double, 75 cents per 500 seeds; $1.50 per 1000 seeds. Single, 50 cents per trade pkt.; $1.00 per 1-16 oz.; $1.50 per 1-8 oz.

Our Quarterly Wholesale Price List, issued January 1st, offers a full line of seasonable Plants, Seeds and Bulbs. The above prices are for the Trade only.

HENRY A. DREER, Philadelphia, Pa.

Princess Dagmar

Without Doubt
The Best Crimson Carnation in Existence

Orders booked now for February delivery

Rooted Cuttings: $12.00 per 100, $100.00 per 1000

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AZALEAS, PALMS, RHODODENDRONS, BAYTREES, ROSES, LILACS, HOLLAND AND JAPAN BULBS, LILY OF THE VALLEY, ETC.

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100,000 Geraniums

From 2 and 2¼ in. Pots

S. A. Nutt, Poitevine, Grant, Ricard, Buchner, Favorite, Montmort, Doyle, Viaud, etc., $2.40 per 100; $20.00 per 1000.

2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

ALONZO J. BRYAN, Washington, New Jersey

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
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Best French Varieties

GEN. DE VIBRAYE, makes large heads, bright rose, easily forced, 5½ in. pots, 35c.

MME. E. MOUILLERE, the well known popular variety, best big white flowering, 5 in. pots, 35c.

OTAKSA, best old standard pink, 5½, 6 and 7 in. pots, 25, 35, 50 and 75c.

Commence now for Easter forcing.

RHODODENDRONS, 25-30 in. high, full of buds, best varieties, $1.00, $1.25 to $1.50.

For EASTER. Azalea Indica, Mme. Van der Cruyssen, Vervaeneana, de Schreveriana, Niobe, Deutsche Perle and the other best varieties, 50c., 60c., 75c., $1.00, $1.25, $1.50 to $2.00.

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ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.

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FUCHSIAS, 2¼ in., $2.00 per 100.

DRACAENAS, 3 in., $4.00 per 100.

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For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO.

Send for list of

Choice Gladioli

JOHN LEWIS CHILDS
Flowerfield, L. I., N. Y.

AMHERST SECURES A. H. NEHRLING AS HEAD OF FLORICULTURE.

Arno H. Nehrling has recently resigned his position as Associate in Floriculture in the College of Agriculture and in the Agricultural Experiment Station at the University of Illinois to become head of the department of Floriculture in the Massachusetts Agricultural College, at Amherst, Massachusetts.

Mr. Nehrling was born July 25, 1886 at Freistadt, Missouri. His preliminary education was received in Milwaukee, in the public schools and in Concordia College. His father at that time was curator of the Milwaukee Public Museum, and while there made frequent publications, both in this country and abroad, along lines connected with Natural History. In 1902 the family moved to Gotha, Florida, to take up the commercial culture of amaryllis, caladiums and crinums, his



ARNO H. NEHRLING

father meanwhile continuing his research. At the present time his father has the largest collection of caladiums in the world and his hybrid amaryllis are known the world over.

In the spring of 1905, Mr. Nehrling entered the Missouri Botanical Gardens and Shaw School of Botany at St. Louis, at that time the only school in the United States specializing along floricultural lines, where he had obtained a scholarship. He was graduated in 1909, his thesis, "The Fancy Leaved Caladiums," appearing in the American Florist the following year.

From March, 1909, until July, Mr. Nehrling taught nature study and school gardening in the public schools of South Chicago, after which he entered into his duties in the floricultural division of the Department of Horticulture, University of Illinois. He is a member of the Society of American Florists and Ornamental Horticulturists, the Illinois State Florists' Association, the Illinois Horticultural Society and a fellow in the Royal Horticultural Society.

His many friends among the faculty of the University, and his acquaintances in the towns of Urbana and Champaign wish him as great success in his new undertaking as he has had at Illinois.

CATALOGUES RECEIVED.

E. E. Stewart, Brooklyn, Mich.—Wholesale Price-List of Gladioli.

W. E. Marshall & Co., New York—Seed Catalogue for 1914. A very creditable publication.

Nungesser-Dickinson Seed Co., Hoboken, N. J.—Wholesale Price List of Grass and Clover Seeds.

Alfred Mitting, Holland, Mich.—Circular of Macatawa Everbearing Blackberry. With colored plate.

L. Daehnfeldt, Odense, Denmark.—Illustrated catalogue of Flower and Vegetable seeds for the Trade.

Wm. Henry Maule, Philadelphia.—Seed Book for 1914. Cover in colors and quite strong on vegetables.

Sluis & Groot, Enkhuizen, Holland.—General Price-List of Vegetable, Flower and Agricultural Seeds.

W. Atlee Burpee & Co., Philadelphia, Pa.—Wholesale Catalog for Seedsmen and Dealers only who buy to sell again. Vegatables and flower and grass seeds fully listed.

Anton Schultheis, College Point, N. Y.—Wholesale Fall Price-List of Flowering and Foliage Plants. A very attractive list from a wide-awake grower of good things for the florists' trade.

Watkins & Simpson, London, England.—Foreign and Colonial Wholesale Catalogue of Garden and Flower seeds, season 1914. Well printed and beautifully illustrated. Insert of "1914" novelties in colors.

Williams Seed Co., Norfolk, Va.—1914 Annual Catalogue of Vegetable, Farm and Flower Seeds. Farm and Garden Implements, Incubators and Poultry Supplies. "Ask the man who plants them," is a good slogan.

Burnett Bros., New York City.—1914 List of Reliable Seeds, Bulbs, Plants. Having graduated into a new and capacious establishment on Chambers street, Messrs. Burnett have duly signalized that event with a catalogue adequate to the occasion. Bound in dark forest green and gold embossed, it presents an attractive exterior. The pages are replete with interesting offers in seeds, poultry supplies, implements, etc., and abundantly illustrated.

A. T. Boddington, New York.—Garden Guide for Spring, 1914.—The first glance at this very inspiring catalogue discloses a cover illustration by Harry A. Bunyard in blue, green and gold which once more confirms us of that gentleman's talent as a decorative artist of no mean ability. Looking through the 175 pages of text we find a bountiful list of the good things a first-class seed house can offer for the year 1914, prefaced with a very attractive novelty list.

Peter Henderson & Co., New York—"Everything for the Garden." The 1914 edition of this always-welcome annual visitor is again an advance upon its predecessors. The illustrations which are numerous and of high quality, are well placed and each page is a well-balanced story by itself. The cover is exceedingly rich and attractive. A picture in natural colors of "Monticello," the home of Thomas Jefferson, set in an embossed panel of cream and gold, adorns the front and a similar design on the back encloses a brilliant rose garden scene. There are several full page inserts in colors, that of Henderson's New Red Sunflower being particularly pleasing.

R. & J. Farquhar & Co., Boston, Mass.—Garden Annual for 1914. Messrs. Farquhar have certainly outdone themselves in this handsome production which is unquestionably the best they have ever put out. The cover illustration of Hypericum patulum var. Henryi and Viola cornuta atropurpurea in colors is lovely and Oriental Poppy Mrs. Perry is equally glorious on the back cover. The book comprises 168 pages with cover and the illustrations are profuse and excellent. In the novelty section are listed thirty-six new and rare plants from the Wilson Chinese collections, with plates of Clematis Armandi, Buddleia variabilis Veitchiana, Exochorda grandiflora Wilsonii and Syringa Wilsonii.

Michell's Seasonable
FLOWER SEEDS NEW CROP

Asparagus Plumosus Nanus

Northern Greenhouse Grown Seed.
500 Seed....$1.75 5,000 Seeds..$15.00
1,000 " .... 3.25 10,000 " .. 29.00
Special prices on larger quantities.

Asparagus Hatcheri Seed

100 Seeds $1.00
500 " 3.25
1,000 " 6.00
Special prices on larger quantities.

Verbena Seed

Michell's Mammoth Fancy Strain.

	Tr. Pkt.	Oz.
Mammoth Fancy, Blue	$0.30	$1.25
" " Pink	.30	1.25
" " Scarlet	.30	1.25
" " Striped	.30	1.25
" " White	.30	1.25
" " Mixed	.30	1.00

Vinca Seed

ALBA. White with rose centre	$0.15	$0.50
ALBA PURA. Pure white	.15	.50
ROSEA. Pink	.15	.50
MIXED	.15	.40

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MICHELL'S SCARLET GLOW	$0.50	$3.50
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SPLENDENS	.25	1.00
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LAWN GRASS SEED

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Commercial Sweet Pea Seed

of my original Winter, also Summer, Varieties, by the ounce or ton. 3,000 lbs. surplus of Nora Unwin, Gladys Unwin, Frank Dolby, Countess Spencer, Orange Spencer, King Edward Spencer, and some small lots of summer and winter Grandifloras.

Ask for special low prices on 100 lb. lots.

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Fruit Tree Stock, Forest Trees, Hedge Plants.

E. NEUBERT, Wandsbek (Germany)
Lily of the Valley, Lilacs for Forcing.

A. KEILHOLZ, Quedlinburg (Germany)
High-grade Vegetable Seeds.

H. ZYP & CO., Lisse (Holland)
Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

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342 West 14th St., New York.

SPIRAEA

	100	1000
Astilboides floribunda	$4.00	$35.00
Japonica	4.00	35.00
Japonica compacta multiflora	5.00	40.00
Palmata	7.00	
Washington	5.00	40.00

LILIUM

	100	1000
L. Giganteum 6-8	$3.50	$30.00
L. Giganteum 7-9	5.00	45.00
L. Giganteum Multiflorum 6-8	3.50	
L. Giganteum Multiflorum 7-9	5.00	
L. Longiflorum 6-8	3.00	

LILY OF THE VALLEY

Prices on Application.

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GREY'S PRIZE EXHIBITION MIXTURE.

This mixture represents the highest perfection of large flowering, new, high-colored sorts. $1.00 Trade pkt. $12.00 ounce.

GREY'S SPECIAL MIXTURE.

A grand mixture of the finest varieties, very striking and highly recommended. 50c. Trade pkt. $5.00 ounce.

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32 South Market St., Boston, Mass.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

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SEEDSMAN, HOBOKEN, N. J.

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Cor. Broadway and Gratiot Aves.
DETROIT, MICH.
Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

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1415 Farnum St.,
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We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
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WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

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Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

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DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 218Q
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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

SOUNDS NATURAL!

The florist shops of Austin were stranded yesterday. All late orders for cut flowers were unfilled and many orders for plants and pot flowers were denied on account of the heavy business. The city, however, was not flowerless. Hundreds of orders for flowers received sevral days ago were filled with promptness. At 4 o'clock yesterday it was almost impossible to make a purchase of flowers from any of the shops. Not a single shop was stocked with sufficient cut flowers to supply the demand and the pot flowers offered were picked over carefully. One florist estimated that more cut flowers had been sold than any Christmas in the history of Austin. The prices were steep during the last few days before Christmas because the demand was too heavy to be supplied. The dealers complained that they were unable to get in shipments from other cities.

Austin (Tex.) Stateman, Dec. 25

STEAMER DEPARTURES

Allan.
Numidian, Boston-Glasgow....Jan. 22

American.
St. Paul, N. Y.-S'hampton....Jan. 16
St. Louis, N. Y.-S'hampton...Jan. 23

Atlantic Transport.
Missouri, N. Y.-London.....Jan. 17
Minnewaska, N. Y.-London...Jan 24

Cunard.
Lusitania, N. Y.-Liverpool....Jan. 14
Andania, Boston-Liverpool....Jan. 15

French.
La Lorraine, N. Y.-Havre.....Jan. 14

Hamburg-American.
Pennsylvania, N. Y.-Hamb'g..Jan. 17
Ft. Bismarck, Boston-H'mb'g.Jan. 22

Holland-America.
New Amst'd'm, N. Y.-R't'd'm.Jan. 13

Leyland.
Devonian, Boston-Liverpool...Jan. 24

North German Lloyd.
Scharnhorst, N. Y.-Bremen....Jan. 17
Kronp'z'n Cecilie, N. Y.-B'm'n.Jan. 20

Red Star.
Zeeland, N. Y.-Antwerp.....Jan 14

White Star.
Arabic, Boston-Liverpool.....Jan. 13
Baltic, N. Y.-Liverpool.....Jan. 15
St. Paul, N. Y.-Southampton..Jan. 16
Oceanic, N. Y.-Southampton..Jan. 21
Celtic, N. Y.-Mediterranean...Jan. 24

FIRES.

Fort Wayne, Ind.—The Bradley Flower Shop was completely burned out December 23d, 1913.

Seattle, Wash.—Tom Rhoades has purchased the Crescent Flower Store from Ira P. Wilson, who has been obliged to dispose of it on account of poor health.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

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ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
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FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
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FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

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MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

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JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

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We cover the entire Pacific Coast and West of the Rockies. Wire us your orders for all Steamers sailing for Honolulu, Manila and the Orient. Regular Trade Discount.

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4326-28 Olive St.
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NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
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Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
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96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
1214 F. ST., N.W.
WASHINGTON, D.C.
Member Florists' Telegraph Delivery

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y. The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

Clinton, Ia.—J. R. Bather.

Bloomington, Ill.—A. Cowan.

Rochester, N. Y.—W. Boultman.

Reading, Pa.—Frank D. Shearer.

Peoria, Ill.—Mrs. J. C. Murray, Jefferson street.

Stamford, Ct.—Quality Flower Store, Atlantic street.

Reading, Pa.—Moyer Bros., 8th and Cherry streets.

Portland, Ore.—Niklas & Son, 405 Morrison street.

Portsmouth, O.—Herms Floral Company, 817 Sixth street.

Deer Lodge, Mont.—Mrs. C. Dietrich, Bien Bldg., Main street.

Framingham, Mass.—Concord Sq. Flower Store, John H. Barrett, proprietor.

John Pehrson has bought the interest of A. Marine in the retail store of Pehrson & Marine, 1134 Bryn Mawr Ave, Chicago.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
87-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CHICAGO NOTES.

A Miller, of the A. Henderson Co., returned last week from a western trip and left again for a two months' trip. He reported business as very satisfactory.

Some of the growers are having trouble with their tulips as was anticipated when the bulbs arrived in a heated condition. It is too early to tell just how serious the trouble may be.

Mrs. M. Mailander, for many years connected with the trade and for the past five years at A. Lange's, will attend the marriage of her daughter, Emily Mailander, to Arthur A. Beeson at Kansas City, Mo., Jan. 10.

Chicago visitors—Miss Ethel Irby, Memphis, Tenn.; W. J. Pilcher, St. Louis, Mo.; J. J. Karins, representing H. A. Dreer, Phila.; I. M. Hoffman, La Porte, Ind.; C. H. Perkins, 2nd, of Jackson & Perkins, Newark, N. Y.; Mr. and Mrs. Leo Bather, Clinton, Ia.; Ralph Bather and Edith Bather, Clinton, Ia.; Victor Huot, Duluth, Minn.

The American Importing Co. has given up its rooms at 219 S. Dearborn street and turned its stock over to its creditors. F. Jerome, the head of the concern, who is leaving for France, says the financial embarrassment is caused by the death of his partner in Germany and that the business will be adjusted and a new start made about Feb. 15th, upon his return.

At Poehlmann Bros.' plant at Morton Grove, the carnation cut Christmas week averaged 16 blooms to the lineal foot in the greenhouses. Their carnation houses have a total of 6,450 lineal feet and the cut therefore was 103,200 blooms. The plant section was cleaned out of everything in bloom, but already the benches are filled with young stock, including 26,000 cyclamen plants.

The Chicago Tribune, in summing up the value of Chicago's wholesale trade for 1913 puts cut flowers at $2,750,000. This is much less than any of the other thirty-five products enumerated and is regarded by many of the wholesalers as much below the actual figures. E. E. Pieser, who has been in the wholesale cut flower business in Chicago for over thirty years thinks $4,000,000 would be a very conservative estimate. Others place the sum at five and six millions while but one wholesaler thought the Tribune's estimate too high.

Sam Pearse is now settled in his new place on Higgins Road. The place has seven acres, a fine brick dwelling house and a range of modern greenhouses. The new material and work was furnished by the J. C. Moninger Co. and the heating is with two of their hot water Sun Ray boilers, with which Mr. Pearse is more than pleased. There is a pump which returns 100 gallons a minute to the boiler when necessary. The service shed is 25 x 227 ft., with double doors at either end and on one side, and teams can pass in at one entrance, get the loads of plants and pass out at the other. This shed also contains the boilers, potting and packing benches, and the roof is supported by trusses and contains glass ventilators, affording both light and air. It speaks well for old-time cypress wood that a part of the range is made from the old houses built 22 years ago. The business is now wholesale only.

PHILADELPHIA NOTES.

Dennis T. Connor came back to work on the 6th inst., after an eight-weeks' illness from typhoid. The Lord & Burnham Co. are glad. So are all other friends of Dennis. "Is Corporal Casey here? He is! Thin lit the battle go on, sez Napoleon."

Fred J. Michell, Jr., has started on a three weeks' business tour south. This is his second trip. Last year he met all the old friends of his house and made many new ones. With his remarkable geniality and impressive personality he will surely do the same again this year—only more so.

William J. Sherry, late with the Johnson Seed Co., and Johnson & Stokes, is now with Henry A. Dreer as assistant superintendent in the vegetable seed department. Mr. Sherry has had over twenty-five years experience in the seed business and is well grounded in all departments. We feel sure he will make good under these new conditions of larger responsibility and opportunity.

Edward Campbell, landscape architect, Ardmore, reports that business has been very brisk in his line during the past year in this vicinity and the prospects for 1914 are also very good. Others in the same line also report favorably. Many old places are being improved and there are some new ones under way, also new golf courses and work of that character, all calling for nursery stock and other trade materials. 1914 looks like a good year for those who advertise.

M. Rice Co., florist supply house, 1220 Race street, gave its second annual banquet to its male employees on Monday evening, December 29th, at the Hotel Bingham. Bernard Eschner, president of the Company, delivered a short address thanking the employees for their faithful work during the last year, and stating that it was the most prosperous in the history of the concern. Some of the employees furnished the music and songs, and the party then adjourned to Keith's.

Visitors:—G. P. McBurney and wife, Atlanta, Ga.; H. M. Joy, Nashville, Tenn.; Stephen Mortensen, Southampton, Pa.; B. F. Barr and Albert M. Herr, Lancaster, Pa.

WASHINGTON NOTES.

William F. Gude has been nominated for the presidency of the Washington Chamber of Commerce, a position which he held several years ago. There are other nominees but it is generally conceeded that if Mr. Gude will allow his name to continue on the ballots, he will win easily. Mr. Gude is looked upon in this city as one of the most level headed of merchants.

Mr. George W. Hess, a native of the District of Columbia, but who has for some years been living in the South, has been appointed to the position of superintendent of the National Botanical Gardens made vacant by the death of the late C. Leslie Reynolds. Mr. Hess was born in this city forty-nine years ago. At the age of sixteen he started in the florist's business with John Saul, after which time he worked with a number of florists including Mr. Muir of Chicago, and Freeman's and was associated with the late Edward A. Mosely for a number of years in Kenilworth, D. C., where he specialized in carnations and violets. A disastrous fire put him out of business and he took the civil service examination for a position with Uncle Sam. Passing with a rating of 100 per cent as a specialist on the growing of foreign, economic and medicinal plants, and with an average of 98 per cent in gardening he was quickly given employment. He is receiving the congratulations of the local trade, he being very well known to many of the florists.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

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Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

GEORGE H. COOKE

FLORIST

Connecticut Ave. and L St., N. W.

WASHINGTON, D. C.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches high,	$2.50	per doz.	4	24	inches high,	$5.00	per doz.
2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

TESTIMONIAL TO E. H. WILSON.

On Thursday evening, January 1, a farewell dinner was tendered to E. H. Wilson, as he was about to depart for a year's sojourn in Japan, by the Horticultural Club of Boston at the Parker House. About thirty members and personal friends of Mr. Wilson, who is honorary secretary of the club, were present. Among those from a distance were F. R. Pierson, Tarrytown, N. Y.; Leonard Barron, Garden City, N. Y.; L. J. Reuter, Westerly, R. I., and Judge C. W. Hoitt, Nashua, N. H. The latter was entrusted with the pleasant duty of presenting to Mr. Wilson on behalf of the members a beautiful gold watch chain and locket and jewelled brooches for Mrs. Wilson and Miss Wilson. Judge Hoitt's effort was a masterpiece, as always, and Mr. Wilson's response was heartfelt and eloquent. Many words of kindly feeling were spoken at this memorable feast in honor of one whom the Boston fraternity have quickly learned to love because of his delightful personality, with wishes for a safe voyage, a successful outcome of his venture and a happy return to Boston a year hence.

The table was superbly decorated with the finest products of several of the club members. We only mention a vase of splendid blooms of Matchless carnation sent with the compliments of Cottage Gardens Company and a vase of Buddleia Asiatica, one of Mr. Wilson's Chinese introductions, which formed the central feature of the decoration and filled the banquet hall with its delicious aroma while every one was charmed with its graceful fountain-like effect.

BUSINESS EMBARRASSMENT.

A meeting of the creditors of Edward MacMulkin, florist, who assigned December 23, 1913, will be held in the rear of store 194 Boylston Street, Boston, (Park Square entrance) on Monday, January 12, 1914, at 10.30 o'clock in the forenoon at which meeting the assignee will present his report of the assets and liabilities, and the question of continuing the business at 194 Boylston Street will come up for discussion and determination. William D. Gooch is assignee.

The annual meeting of the American Forestry Association will be held at the New Willard Hotel, Washington, D. C., at 11.30 A. M., Wednesday, January 14, 1914. The meeting will be confined to a business session, the general discussions and papers on forestry having been disposed of at meetings presided over by President Henry Sturgis Drinker, and Vice-President Henry S. Graves at the time the National Conservation Congress met in November.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

THE Florists' Supply House of America

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia, Pa.

Florist's Refrigerators

Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.



PERSONAL.

H. F. Littlefield of Worcester, Mass., is starting on a trip to Japan.

John Cook, the veteran rosarian, of Baltimore, starts January 9th for a winter sojourn in Florida.

John Allan, gardener for Mr. J. R. Drexel, Newport, R. I., was elected license commissioner for the city on Monday, Jan. 5th.

William M. Reid, salesman for W. W. Barnard Company, Chicago, sailed on January 1st on a two months' business and pleasure trip to Scotland.

Announcement is received of the engagement of Miss Geneveive Frances Roy, eldest daughter of D. F. Roy, superintendent of "The Moorings," Marion, Mass., to Dr. Rogers Humphries of Holyoke, Mass.

Charles H. Curtis, who has been assistant editor of The Gardeners' Magazine, London, Eng., succeeds George Gorden as editor-in-chief. Mr. Gordon will act as advisory editor. The price of the paper is to be reduced to one penny instead of two pence, as heretofore.

Cincinnati visitors.—William Rogers of the Miami Floral Co., Dayton, O.; R. M. Speer, Columbus, Ohio.

Boston visitors.—Harvey Geddes, Supt. of Portland Country Club, Falmouth Foreside, Me.; Hon. C. W. Hoitt, Nashua, N. H.; Louis J. Reuter, Westerly, R. I.; F. R. Pierson, Tarrytown, N. Y.; Leonard Barron, Garden City, N. Y.; A. E. Thatcher, Bar Harbor, Me.; D. F. Roy, Marion, Mass.; M. B. Faxon, New York; Mrs. Francis King, Alma, Mich.; William Judgens, Newport, R. I.; Arthur Griffin, E. Marion, Mass.

HENRY PENN'S ADVENTURE.

Whether or not the joke is on Henry Penn, the Bromfield street florist, or on his chauffeur, Mr. Penn's friends have not yet been able to decide, but the fact that they are all sure of is that there was a joke, and that it is too good to be kept.

It may have been the fault of the chauffeur, or of Mr. Penn or the limousine. This also has not been decided.

Mr. Penn came out of his Bromfield street store to his waiting car the other day and said to the chauffeur: "Drive to the Roland greenhouses at Nahant."

The chauffeur bent to crank his engine, and when Mr. Penn told him to "wait a minute," and went back in the store for something he had forgotten, the whirring engine drowned his words and the chauffeur climbed to the seat, thinking Mr. Penn was inside.

In a few moments the latter came out and looked around for his car.

There was no car and the bystanders were only lazily interested when he told them that a perfectly good limousine and chauffeur had disappeared off the face of the earth. It is told that a man once lost a bass drum, but that's no argument.

Mr. Penn took a train to Nahant and called up the Bromfield street store and asked if any word had been heard of the chauffeur. "He's just calling now," said the clerk, and over the other wire he listened to the frenzied tale the chauffeur told of starting for Nahant with Mr. Penn, of losing him somewhere on the road, and of his suspicions that a horrible murder had been done; that his employer's mangled body was even then lying on the road somewhere—who could say where?

When he and his employer finally got together he told that he had started with the firm belief that the latter was inside; that he had a puncture on the Lynn boulevard; had got out, jacked up the car and changed the shoe, still sure that Mr. Penn was inside. "I thought you were probably reading," he said, "and I never looked in.

"When I got to the greenhouses I found that you were not with me. Then I got busy on the telephone."

Mr. Penn is kept "busy on the telephone" these days himself, doing some explaining and quieting the vague rumors that he was a victim of thugs on the road from Boston to Nahant.—*Boston Advertiser.*

Gardeners' and Florists' Union

No. 10615, Chicago, Ill.

Extend to the trade an invitation to attend a Smoker at Room 5, 232 N. Clark Street, Wednesday Evening, January 14th, at 8.15 p. m.

GARDENIAS

Dozen $2.00—$4.00, 100 $15.00—$25.00

For the balance of the season you can depend on us for all the Gardenias you need. The quality is as fine as any grown and our prices are always right.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI January 5	CHICAGO January 5	BUFFALO January 5	PITTSBURG January 5
Roses				
Am. Beauty, Special	..... to 50.00	35.00 to 40.00	40.00 to 50.00	..... to 50.00
" " Fancy and Extra	..... to 40.00	25.00 to 30.00	20.00 to 40.00	35.00 to 40.00
" " No. 1	..... to 30.00	20.00 to 25.00	4.00 to 20.00	20.00 to 25.00
Killarney, Extra	..... to 15.00	8.00 to 10.00	10.00 to 15.00	8.00 to 12.00
" Ordinary	..... to 8.00	6.00 to 8.00	5.00 to 8.00	4.00 to 6.00
Richmond, Hillingdon, Extra	..... to 15.00	10.00 to 12.00	10.00 to 12.00	10.00 to 15.00
" " Ordinary	..... to 8.00	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00
Maryland, Ward, Taft, Sunburst, Ex.	..... to 15.00	8.00 to 10.00	10.00 to 15.00	8.00 to 12.00
" " " " Ordinary	..... to 8.00	6.00 to 8.00	5.00 to 8.00	..... to 6.00
Russell, Shawyer	..... to 30.00	..... to 20.00	8.00 to 15.00	..... to .....
Carnations, Fancy	..... to 4.00	4.00 to 5.00	3.00 to 4.00	4.00 to 6.00
" Ordinary	..... to 3.00	2.50 to 3.00	2.00 to 3.00	..... to 3.00
Cattleyas	..... to 50.00	50.00 to 60.00	50.00 to 60.00	50.00 to 75.00
Cypripediums	..... to 25.00	..... to	12.00 to 15.00	..... to 15.00
Lilies, Longiflorum	..... to 12.50	8.00 to 12.00	10.00 to 12.00	..... to 15.00
Callas	..... to 12.50	8.00 to 10.00	10.00 to 12.00	..... to .....
Lily of the Valley	..... to 4.00	3.00 to 4.00	..... to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	..... to 3.00	2.00 to 3.00	..... to 3.00
Freesias	..... to 4.00	..... to	..... to	..... to .....
Violets	..... to 1.00	1.00 to 1.50	.75 to 1.00	.75 to 1.25
Daises	..... to 1.50	..... to	1.00 to 2.00	..... to 3.00
Sweet Peas	..... to 1.00	..... to 1.50	2.00 to 3.00	.50 to 1.00
Gardenias	..... to 25.00	25.00 to 30.00	30.00 to 40.00	40.00 to 50.00
Adiantum	..... to 1.00	.75 to 1.00	1.00 to 1.50	..... to 1.25
Smilax	..... to 15.00	12.00 to 15.00	12.00 to 15.00	..... to 20.00
Asparagus Plumosus, Strings (100)	..... to 50.00	40.00 to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 bchs.)	..... to 50.00	25.00 to 50.00	15.00 to 50.00	35.00 to 50.00

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P M QUALITY

Flower Market Reports

BOSTON

Boston faces a dull market this week.. "General Apathy" is in control apparently. Stock is excellent in quality as a general thing and fortunately there is no excessive supply of anything. Roses are decidedly better in color than they were a week ago. Carnations are in fair supply and the white varieties now have the better hold on the market. White roses, however, are very abundant and act as a check on any upward tendency in price. Beauty roses are shy now and probably will be so for some weeks. A very insistent demand is experienced in the flower stores for uncommon things, such as calendulas, cornflowers, English primroses, etc. All violets are scarce but singles bring nearly twice the price that doubles attain.

BUFFALO

The balance of the old year ended quite satisfactorily to the trade though the volume of business was no larger than the year previous. The supply of stock was sufficient to fill the wants and there was no scarcity on any item except possibly some corsage material, such as daisies and good peas. Beauties were in good supply and the quality excellent, especially the top grades, and the sales were satisfactory. Two bank openings on Monday last helped to consume a good quantity of Beauties, plants and baskets, and together with other social functions kept the trade busy for at least a day. The carnation supply is increasing daily and no shortage exists. The quality is not as good as could be wished. Stems weak and too many split blooms; there are also too many whites. Roses, especially Killarney, Richmond and Sunburst, are fine, though there are not many shorts. All other varieties have sold well. There is a good supply of promiscuous stock of all kinds.

CHICAGO

Trade seems quiet and is generally reported so, but all first-class stock is moved off at good prices, so it would seem that the dullness is partly in comparison with the holiday rush. Carnations, always slower to show the effects of unfavorable weather conditions, are said by some of the large growers to be now suffering from the warm damp weather of November and early December, and the result is, there are many weak-stemmed and split canations on the market. With many, the crop of American Beauties is on the wane so a lessening of the demands for them is not serious. Roses are very scarce and those whose stock was not in crop at Christmas are getting their share of the returns now. The extreme scarcity of roses in general may be said to be the feature of the market condition of the first week of January. Single violets are almost an impossibility and the supply of doubles is not too large to meet the demand. Gardenias are also scarce and some of the retailers secure their supply from the East. Lily of the valley is coming steadily, but sweet peas are scarcely seen. A few Roman hyacinths and a fair supply of lilies, callas, stevia and paper white help out. All kinds of green are plentiful.

CINCINNATI

The post-holiday market is somewhat different this year from what is generally the rule. Usually as soon as the new year has begun there is a large influx of flowers that have cropped a little too late for the yuletide holidays. This year, however, the cloudy weather has kept the cut at a low point and with a good demand the market is cleaning up in a satisfactory manner each day. The call from out of town is good. Last week the taking of office by the incoming administration used very many flowers at the City Hall. Every office had its full share of flowers, tokens of esteem and congratulation from friends and constituents to the successful candidates for office. The rose supply is rather short. Only Pink and White Killarney are offered in anything like quantity. It will probably be two or three weeks before the supply of American Beauties will again be sufficient. Carnations are in a good supply. Lilies are plentiful and have helped nicely to take care of the general demand. The influx of narcissus has let up very considerably and the wholesalers are now able to obtain a fair price for this flower. Violets and lily of the valley are selling well. The weather is against sweet peas. They are rotting and dropping off by the thousands and there will be no relief for them until we have bright weather.

(Continued on page 55)

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON January 8			ST. LOUIS January 5			PHILA. January 5		
Roses									
Am. Beauty, Special	40.00	to	60.00	35.00	to	50.00	50.00	to	60.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	35.00	to	40.00
" " No. 1	10.00	to	15.00	10.00	to	12.50	15.00	to	25.00
Killarney, Extra	8.00	to	12.00	6.00	to	8.00	10.00	to	12.00
" Ordinary	5.00	to	6.00	3.00	to	5.00	5.00	to	8.00
Richmond, Hillingdon, Extra	8.00	to	12.00	6.00	to	10.00	10.00	to	15.00
" " Ordinary	5.00	to	6.00	4.00	to	5.00	6.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	12.00	6.00	to	8.00	10.00	to	12.00
" " " " Ordinary	4.00	to	6.00	3.00	to	4.00	6.00	to	8.00
Russell, Shawyer	15.00	to	30.00	.....	to		8.00	to	20.00
Carnations, Fancy	2.00	to	3.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	1.50	to	2.00	1.00	to	2.00	2.50	to	3.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	.....	to	60.00
Cypripediums	.....	to	15.00	.....	to	.....	.....	to	15.00
Lilies, Longiflorum	6.00	to	8.00	10.00	to	12.50	.....	to	12.50
Callas	.....	to	12.00	10.00	to	12.50	.....	to	12.50
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	.00	2.00	to	4.00	2.50	to	3.00
Freesias	2.00	to	3.00	.....	to	.....	.....	to	.....
Violets	.50	to	1.25	.75	to	1.00	.75	to	1.00
Daisies	.....	to	2.00	.....	to	.....	2.00	to	3.00
Sweet Peas	.75	to	1.00	.75	to	1.00	.75	to	1.00
Gardenias	25.00	to	35.00	.....	to	.....	12.50	to	25.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	12.50	to	15.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	25.00	15.00	to	25.00	35.00	to	50.00

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ROSES AND CARNATIONS	Last Half of Week ending Jan. 3 1914	First Half of Week beginning Jan. 5 1914
American Beauty, Special	25.00 to 50.00	25.00 to 50.00
" " Fancy and Extra	15.00 to 25.00	15.00 to 25.00
" " No. 1	10.00 to 15.00	10.00 to 15.00
Killarney, Extra	8.00 to 10.00	8.00 to 10.00
" Ordinary	3.00 to 8.00	3.00 to 8.00
Richmond, Hillingdon, Extra	6.00 to 10.00	6.00 to 10.00
" " Ordinary	3.00 to 6.00	3.00 to 6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 12.00
" " Ordinary	3.00 to 8.00	3.00 to 8.00
Russell, Shawyer	12.00 to 25.00	12.00 to 20.00
Carnations, Fancy Grade	3.00 to 5.00	3.00 to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 3 1914	First Half of Week beginning Jan. 5 1914
Cattleyas	25.00 to 40.00	25.00 to 40.00
Cypripediums	12.00 to 15.00	12.00 to 15.00
Lilies, Longiflorum	10.00 to 12.00	10.00 to 12.00
Callas	10.00 to 12.00	12.00 to 15.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.50 to 2.00
Freesias	..... to	..... to .....
Violets	.50 to 1.00	.50 to 1.00
Daises	..... to 2.00	..... to 2.00
Sweet Peas (per 100 bunches)	6.00 to 10.00	6.00 to 8.00
Gardenias	15.00 to 35.00	15.00 to 35.00
Adiantum	.50 to .75	.50 to .75
Smilax	8.00 to 10.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	15.00 to 25.00	15.00 to 35.00
" " & Spren (100 bunches)	10.00 to 15.00	10.00 to 20.00

Flower Market Reports

(Continued from page 53)

NEW YORK The usual quiet following New Years is on this week and will probably continue for a week more, at least. That it is not accompanied by the customary market slump is due, in part, to weather vagaries and in part to the adroitness of the rose growers, who have acquired consummate skill in late years in timing their crops almost to a day. The advent of the Killarney type of roses was the death knell of the old-time uncertainty and scattered results of the holiday rose crop. Since Christmas the cut has fallen off sufficiently to save the market from rose chaos and all other crops are also beneficiaries. Our market quotations tell the rest of the story as to prices this week. But things are very, very dull on all sides.

PHILADELPHIA New Year's week was fully as good as other years, probably a shade better, although there did not seem to be much extra business around either. Stock generally is not quite so plentiful now except perhaps in carnations. Roses have fallen off in supply, especially American Beauty. These are back to normal figures after the Christmas slump. The usual dull weather of January will tend from now on for a while to scarcity and high prices. Russells are very scarce indeed and in some cases are bringing nearly as much as Beauties. Killarneys are improved as to color, although not quite at their best yet. Richmonds are not very plentiful; quality pretty good. Lily of the valley is very good stock, and none too plentiful—probably as scarce as they ever were for New Year's week. Violets also rather on the scarce side. Nearly all other items are in normal supply and fair demand. The early daffodils (French-grown Trumpet Majors) are the latest new arrivals among the minor subjects. Paper Whites are plentiful and good. Mignonette is also very fine.

ST. LOUIS The market since the holidays has been in fairly good shape. The crop has shortened up considerable but prices are not near so high as they were for the holidays. Violets have been exceptionally scarce this season. With a little clear weather no doubt they would be in plenty and just now they bring $1 per 100 for the best. Roses and carnations are about enough to go around. Sweet peas are fine but short for the demand. Of everything else there is a good supply.

WASHINGTON A large number of social events continues to keep the trade on the jump during business hours and for some time after the usual time of closing. The out-of-town trade is quite heavy. All flowers with the possible exception of Easter lilies and narcissi, are meeting with a ready sale. American Beauty roses are not as plentiful as they have been and are bought up as soon as they are offered for sale. Cattleyas are also scarce and are bringing from 60 to 75 cents each, while there are more cypripediums on the market than there have been for some time and these can be had at from $1.50 to $2 per dozen. Some exceptionally fine double stevia was seen in the stores. Sweet peas are moving well at about $1.25 per hundred; poinsettias are bringing 15 and 25 cents each, and carnations are bringing in the neighborhood of $4 per hundred. Pink, white and yellow snapdragon is proving quite popular this season and is to be had in good quality with extra long stems.

CLUB AND SOCIETY NOTES.

The next meeting of the Indiana State Florists' Society will be held in Indianapolis, Tuesday, Jan. 13th.

The regular meeting of The Cincinnati Florists' Society will be held on Monday evening, January 12 at the club rooms.

On January 17, George H. Peterson of Fairhaven, N. J., will deliver a lecture at Horticultural Hall, Boston, on The Hybrid Tea Rose of Today.

The Knoxville (Tenn.) Florists' Society has been organized with the following officers: President, C. L. Baum; vice-president, Mrs. Edith Crouch; secretary and treasurer, A. J. McNutt.

The next meeting of the New York Florists' Club, Monday, January 12, will be enlivened by a talk on Advertising by L. W. C. Tuthill. That it will be worth listening to is a safe prediction.

The regular meeting of the North Shore Horticultural Society, was held January 2, at Manchester, Mass., when the members listened to a very able address on Apple Culture by F. A. Smith of the Essex County Agricultural School who brought out some good points on up-to-date methods. At our next meeting January 16, A. Leuthy, the well-known plantsman, will talk on Plants. JAMES SALTER.

At the regular session of the Southampton, N. Y. Horticultural Society, Dec. 16th 1913, it was decided to give a dinner at the Commercial Hotel, Jan. 8th 1914, inviting the wives and lady friends of the members, and some of the seedsmen who have contributed largely toward the success of the summer exhibitions, (in lieu of the annual banquet). The meeting on Jan. 1st, 1914 being the night for the election of officers, Julius W. King was elected president; M. J. McLaughlin, vice-president; and Wm. McLoud, treasurer. Mr. Palmer who has faithfully performed the duties of secretary ever since the organization of the society, finding the duties getting too arduous for his advancing years, declined and Wm. Fitzpatrick was elected in his place. We also added an assistant secretary, Joseph G. Cassidy, who will perform the double duty of assistant and corresponding secretary.

D. T. WELLS, Cor. Sec'y.

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John Lewis Childs, Flowerfield, L. I., N. Y.
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Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANES

Wm. Elliott & Sons, New York City.
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CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

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Carnation Matchless.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Elmer D. Smith & Co., Adrian, Mich.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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A. M. Davenport, Watertown, Mass.
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Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZEEH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

200,000 Giant Flowering Cyclamen Seedlings in six separate colors, our own grown strain. Seed only taken of Numberblossoms. From seed flats, August-sown, $2.50 per 100; $20.00 per 1000. Once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all packages. CHRIST. WINTERICH, Cyclamen Specialist, Defiance, O.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

NEW DAHLIAS FOR 1913.
Dorothy Peacock, Mrs. J. Gardner Cassett, Golden Wedding, New Century Dahlias, etc. Big stock of best cut flower dahlias. Write for surplus list and special prices. PEACOCK DAHLIA FARMS, Williamstown Junction, N. J.; Post Office, Berlin, N. J.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

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Consumers' Fertilizer Co., New York City.
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Extra strong 2½-in. stock, ready for shift. S. A. Nutt, $18.00 per 1000; $2.00 per 100. Ricard, Viaud, Buchner, Poitevine, $20.00 per 1000; $2.25 per 100; 3-in., $2.50 per 100. Cash. Prompt shipment. QUAKER HILL NURSERIES, Monroe, N. Y.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
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Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

America, planting stock, $2.75 per 1000. Taconic, large bright pink, $5.00 per 1000. Bulblets, 50c. and $1.00 per quart, respectively. HOMER F. CHASE, Haverhill Road, Lawrence, Mass.

America, Extra Selected Bulbs, $15.00 per 1000. America, First Size Bulbs, $12.00 per 1000. America, Blooming Bulbs, $7.00 per 1000. America, Planting Bulbs, $2.50 per 1000. America, Bulblets, $2.50 per Peck; $10.00 per Bushel. BROOKLAND GARDENS, Woburn, Mass.

GLASS

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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Nicoticide, the Insecticide.
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JERUSALEM CHERRIES

Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash. F. SOKOL, Worcester, Mass.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Horse Shoe Brand.

Fottler, Fiske, Rawson Co., Boston, Mass.

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PEAT
J. H. Sprague, Barnegat, N. J.

PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PETUNIAS
H. A. Dreer, Philadelphia, Pa.
Double Petunias.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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"Riverton Special."
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POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail. I. N. KRAMER & SONS, Cedar Rapids, Iowa.

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New Red Rose, "Francis Scott Key."

A. N. Pierson, Inc., Cromwell, Conn.
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Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
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SNAPDRAGONS

White Giant Snapdragons — Seedlings, $1.00 per 100; transplanted, $1.50 per 100; from 2¼-in. pots, $2.00 per 100. HENRY EICHHOLZ, Waynesboro, Pa.

SPHAGNUM MOSS

J. H. Sprague, Barnegat, N. J.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
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STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
For page see List of Advertisers.

New Offers in This Issue

COMMERCIAL SWEET PEA SEED.
Ant. C. Zvolanek, Lompoc, Calif.
For page see List of Advertisers.

FARQUHAR'S 1914 CATALOGUE.
R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

LAWN GRASS—THE RIGHT SEED IN THE RIGHT PLACE.
Albert Dickinson Co., Minneapolis; Chicago.
For page see List of Advertisers.

MUSHROOM GROWER WANTED.
Address "R. G," care of Horticulture.
For page see List of Advertisers.

NEW WINTER-FLOWERING SNAPDRAGONS.
H. Huebner, Groton, Mass.
For page see List of Advertisers.

POTASH.
German Kali Works, Inc., New York City.
For page see List of Advertisers.

SPECIAL BARGAINS.
Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

SWEET PEAS.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

TRADE INVITATION TO SMOKER.
Gardeners' and Florists' Union, No. 10615, Chicago, Ill.
For page see List of Advertisers.

HELP WANTED

WANTED

MUSHROOM GROWER

Capable of growing Mushrooms and other vegetables for the market. A man with European experience preferred.

A fine opportunity for the right man

Write, giving full account of previous experiences and letters of recommendations, to R. G., Care HORTICULTURE

WANTED—A young man as general plant grower. A good opening. Address "T. R.," care HORTICULTURE.

UNDER SITS WANTED

SITUATIONS WANTED

SITUATION WANTED—By experienced commercial rose grower. Also understands carnations, bouvardias, Easter plants, etc. Massachusetts position preferred. Address "W. A.," care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, now; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

Obituary

Sir Trevor Lawrence.

British horticulture suffered a severe loss on Dec. 23rd, by the death of Sir Trevor Lawrence, Bart., whose name will be indissolubly linked with the work of the Royal Horticultural Society in London. At the close of 1887 this Society, through various causes was in very low water. At that time the Society was in debt to the amount of 1,152 pounds, with a total expenditure of 3,500 pounds, and a fellowship numbering 1,329. Early in 1888 Sir Trevor became the President, and for 25 years he was associated with the Rev. W. W. Wilks, the Secretary,



Sir Trevor Lawrence, Bt., K. C. V. O., V. M. H.

in guiding the Society's destinies. As an ardent horticulturist the new President took the keenest interest in the work of re-organization; he was rewarded by seeing the organization put on a thoroughly sound basis.

At the end of 1912 the number of fellows had grown to 13,385, with an annual expenditure of 18,007 pounds, whilst there was a satisfactory financial surplus. In addition the Society has secured an extensive experimental garden and laboratory at Wisley, in Surrey, and a spacious hall, library, and offices in Vincent Square, Westminster. In the early part of this year, Sir Trevor, owing to impaired health, was compelled to resign his position as President, although retaining his membership of the Council. Sir Trevor had one of the finest orchid collections in England. W. H. A.

Regarding the foregoing it might be desirable to state here that the rehabilitation of the Royal Horticultural Society was also due in large measure to the generosity of Baron Shroeder. Sir Trevor Lawrence was a great collector of new plants and his orchid collection is famous the world over and containing not only good representative plants but a great variety, including a large number of the botanical species. The curious always interested him very much, and he was one of the first people to buy some of the new Wilson plants. On the occasion of the last International in 1912, Sir Trevor Lawrence entertained a great gathering of visitors at his place, Burford Lodge, Dorkins.

Sir Trevor's father was a well known and famous physician in London; one of the high society men who got tremendous fees and made himself a great reputation. He became famous, in fact, through his instituting a free clinic to people unable to pay his fees, whom he would see before eight o'clock in the morning.

Ralph G. Shrigley.

A well-known and well-liked personality in the wholesale cut flower trade of Philadelphia, passed away January 1st, aged about 30 years. He started as office boy with Samuel S. Pennock, with whom he remained some eight or nine years. After that he was employed by other commission houses for several years until his health broke down about six months ago. He was unmarried and resided with his mother in Darby, Pa.

Mrs. William Scott.

In Buffalo, N. Y., Jan. 2nd, Christina F., wife of the late Wm. Scott, and mother of Alex., Phil., Wm. B., David, Mrs. J. C. Kantrowitz, Robt., Alf., and Oliver. The funeral was held on Monday, Jan. 5th.

Mrs. Mellman.

We regret to announce the death of Mrs. Mellman, mother-in-law of A. C. Heckman, Jr., of the Cincinnati Cut Flower Exchange. Mr. and Mrs. Heckman have the sympathy of their many friends in their bereavement.

Mrs. Henry Engler.

Mrs. Henry Engler, wife of Henry Engler, 4651 Lancaster avenue, died on December 26th, after an illness of many years.



The Profits in Progress

Farmers are learning the profitable fertilizer—the one that gives the best profit consistent with maintaining soil productiveness.

Progressive farmers are increasing, for all crops, the

POTASH

in their goods. Results have shown there should be at least as much Potash as Phosphoric Acid, for ordinary farm crops take from the soil from 2 to 4 times as much Potash as Phosphoric Acid. For potatoes, truck and fruit the Potash should be double the Phosphoric Acid.

If your dealer insists on carrying only low grade, 2% Potash goods, we will sell you Potash in any amount from one 200-pound bag up.

Write for Prices and Free Pamphlets

GERMAN KALI WORKS, Inc., 42 Broadway, New York

Chicago, McCormick Block Savannah, Bank & Trust Building Atlanta, Empire Building
New Orleans, Whitney Central Bank Building San Francisco, 25 California Street

APHICIDE POWDER

(FORMERLY THE FUMIGATING KIND)

KILLS ALL APHIS

$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.

WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU

If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.

THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW

POWER AND SPRAY PUMPS

OF ALL KINDS



A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.

C. J. JAGER COMPANY

13-15 Custom House Street Boston 33 Canal Street, Providence, R.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | **Experimental Greenhouses, Catonsville, Md.** | **Experimental Farm, Farmingdale, N. J.**

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

Please discontinue my advertisement of new rose, Francis Scott Key, until your first issue in February. All the first plants of my propagation are sold. With good wishes.

Sincerely yours, JOHN COOK.

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.

CLARKSVILLE, TENN.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

WORTH READING

Arthur Ruzicka, writing on "Rose Growing Under Glass," in "Horticulture," November 15, 1913, says:

"We have found that a good spray of FUNG NE will do away with all traces of mildew, and if applied in time will kill it so that many leaves will be saved. This fact is mentioned only for the good of the growers, and not to advertise the article, for this is no place for advertisements. We have so far heard of nothing that can compare with FUNGINE and that is why no other preparation is mentioned.

75c. per quart. $2.00 per gallon.

Have you tried NIKOTIANA and compared it with other nicotines for fumigating? If not, it will prove worth your while doing so, both from the point of efficiency and cost.

$1.50 per quart. $4.50 per gallon.

There is nothing "just as good" as APHINE for greenhouse spraying for all sap sucking insects—VERMINE for the soil to destroy eel, wire and cut worms without injury to vegetation—SCALINE for spraying fruit and ornamental trees NOW against San Jose and other scale, red spider and aphis larva.

All up-to-date seed firms and florists' supply houses handle our products.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

CANADIAN AGENTS: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

BRITISH DISTRIBUTORS: British and American Fertilizing Co., Liverpool, Eng.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

When writing to advertisers kindly mention HORTICULTURE.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

DURING RECESS.

The Florists' Club of Pittsburgh, Pa., held a Ladies' Night on Monday, January 5th.

The Tarrytown Horticultural Society will hold its fifteenth annual dinner at the Florence Inn, Tarrytown, N. Y., on Tuesday evening, Jaunary 13. E. W. Neubrand is secretary of the society.

The Greek-American Florists' Association will hold their 7th Annual Ball on Friday night, February 13, at Terrace Garden, 58th street, New York. George Polykranas is chairman of the committee in charge.

GREENHOUSES BUILDING OR CONTEMPLATED.

Dewey, Okla.—H. M. Johnson, one house.

Jefferson, O.—L. J. McNutt, one house.

Altoona, Pa.—Myers Bros., range of houses.

Johnstown, Pa.—Allison B. Curry, one house.

Reisterstown, Mr.—Harry Brown, house 18x40.

Aberdeen, Miss.—Aberdeen Floral Co., one house.

Yankton, S. D.—Gurney Seed & Floral Co., one house.

Grosse Isle, Mich.—Frank Orlosky, Trenton cross road, one house.

Suffield, Ct.—E. N. Spaulding & Son, Mapleton avenue, house 20x100.

Cleveland, O.—H. Eichoff & Son, Highland park, six houses, each 21x150.

Providence, R. I.—C. Schurmann, Walnut Grove, range of houses. D. N. Potter, 501 Park avenue, one house.

NEWS NOTES.

Grand Rapids, Mich.—Lewis Kunst has bought the greenhouse business of H. Danhoff.

Norfolk, Va.—The Blick Brunton Company has changed its name to the Old Dominion Plant Company.

Nashville, Tenn.—Geny Bros, have an interesting and very promising sport from the Mrs. Charles Russell rose.

Portland, Ore.—John Holden and Frank Chervenka have taken possession of the Sibson greenhouses at 1180 Milwaukee avenue.

Kansas City, Mo.—Patrick Larkin resigned as secretary of the Police Commission on January 1st and will hereafter give his entire attention to his flower business.

Orlando, Fla.—The finance committee of council reported in favor of settling with the Luther Floral company for the sum of $500. The company had sued the city for $2,000 damages alleged to have been done by the flooding of the premises occupied by the company due, it was claimed, to insufficient drains. The recommendations of the finance committee has been favorably acted upon by council.

NEW CORPORATION.

Montreal, Que.—The Wm. Ewing Company, Ltd., capital stock, $250,000.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4 in.	@ $4.50
1500	2	"	"	4.88	456	4½ "	" 5.24
1500	2¼	"	"	5.25	320	5 "	" 4.51
1500	2½	"	"	6.00	210	5½ "	" 3.78
1000	3	"	"	5.00	144	6 "	" 3.16
800	3½	"	"	5.80	120	7 "	" 4.20
					60	8 "	" 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

THOSE RED POTS
Ask the Florist That Uses Them
HARRY BALSLEY
Detroit Flower Pot Co., Detroit, Mich.
Mention HORTICULTURE when writing.

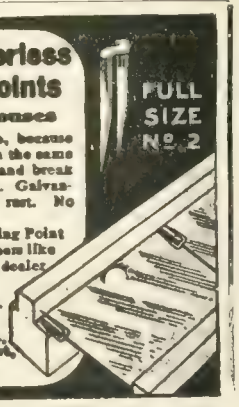
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Produce Results
Write for Reasons
KING CONSTRUCTION CO.
28 King's Road North Tonawanda, N. Y.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine.
Write for free Catalogue to
QUAKER CITY MACHINE CO., Richmond, Ind.

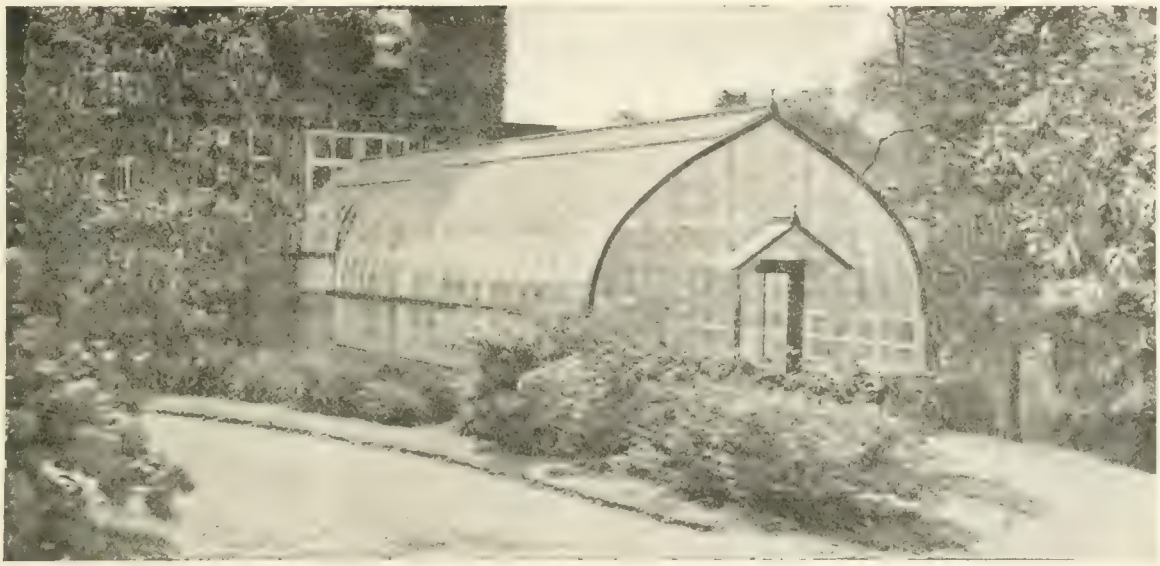
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PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.



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Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
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Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Greenhouse connected to Herbert Barber's residence at Englewood, N. J. F. Gallerne, Gardener.

A Growing Tendency

MORE and more owners are desirous of having their greenhouse garden either handyby the residence or attached directly to it.
Some gardeners discourage this—for purely personal reasons.
This has always seemed a mistake to us, because the more intimate interest an employer takes in the greenhouse, the more opportunity has the gardener to keep up the owner's interest in him and his work.
We say this by way of suggestion. In any event when it comes to greenhouses, come to Hitchings. Catalog yours for the asking.

"We are now mailing out a very attractive 1914 calendar. If you did not get one, let us know."

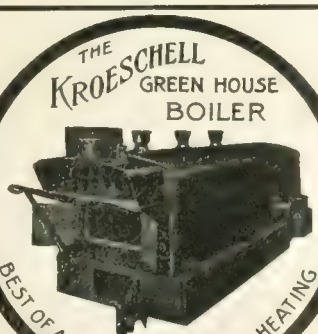
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1170 Broadway

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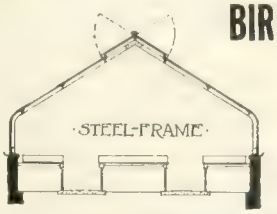
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BEST OF ALL FOR HOT WATER HEATING

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466 W. Erie Street CHICAGO



BIRD STEEL-FRAME GREENHOUSE CO., Inc.
DESIGNERS and BUILDERS
Modern Greenhouses and Conservatories
Specialists in Heating Systems for Greenhouses
General Sales Office, 15-17 West 38th Street
NEW YORK CITY

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

The Real Thing

TWO diamond rings, one looks real, the other is real—which one is the real one?

No one can tell without examining them.

Two greenhouses, both have curved eaves, one looks like a U-Bar curved eave — the other is the U-Bar,

You perhaps couldn't tell the difference between the one that is, and the one that isn't, when going spinning past in an automobile.

But what a difference when you examine and compare them!

The very strongest endorsement possible for the U-Bar curved eave house, is the endorsement given it by all our competitors in their continual efforts to make their houses look as near as possible like U-Bar houses.

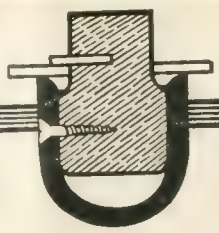
Always bear in mind that the U-Bar is a complete galvanized steel framed construction, and that the U-Bars are rafter and roof bar combined in one. Also remember that this combined rafter and bar is no larger than the wooden roof bar used in the best standard iron frame constructions.

Another thing to remember is that the cypress part of the U-Bar is entirely protected from the inside moisture by the galvanized steel U-Bar.

Of course the U-Bar costs more than other constructions. Costs more because you get more for what it costs.



Erected for Alfred G. Vanderbilt at Newport, R. I.



U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

HORTICULTURE

Vol. XIX JANUARY 17, 1914 No. 3



BUDDLEIA ASIATICA

Specimen Plant Exhibited at Boston, January 3rd, by the Bayard Thayer Estate, South Lancaster, Mass., William Anderson, gardener

DEVOTED TO THE

Florist, Plantsman, Landscape Gardener and Kindred Interests

PUBLISHED EVERY SATURDAY AT 11 HAMILTON PLACE, BOSTON, MASS.

SUBSCRIPTION, $1.00

MATCHLESS

Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless,** the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class—21 vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS
COTTAGE GARDENS CO., Inc.
QUEENS, NEW YORK



THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI
AND
BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

SEND FOR PRICES

ERNEST OECHSLIN
Gale Ave. and Madison St.
RIVER FOREST, - ILL.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
Joseph Heacock
Wyncote, Pa.

ORCHIDS

Imported and Potted
FREEMAN ORCHID COMPANY
FALL RIVER, MASS.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
SANDER, St. Albans, England
and 258 Broadway, Room 721
NEW YORK CITY

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
Our Catalogue on application
LAGER & HURRELL, Summit, N. J.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

Fine Plants Right Along After Christmas

A Succession of Azaleas, all colors, and Superb Cyclamen. Lilacs soon.

A. SCHULTHEIS College Point, N. Y.

You Cannot Possibly Go Wrong
by investing in the
PHILADELPHIA
Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000
2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.
1218 Betz Building
Philadelphia, Pa.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P O No 1, Hoboken, N. J

SPECIAL BARGAINS

10,000 2 inch pot plants Enchantress Supreme and Helen ready at $5.00 per 100 White Wonder, Comtort, Scarlet Wonder Benora and ten others at $3.00 per 100 15,000 strong R. C. Chrysolora Lucas and 50 others, $2.00 per 100. Cash.

HARLOWARDEN GREENHOUSES, Box 148, Greenport, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

NEW ROSES

KILLARNEY BRILLIANT This rose will replace Killarney as surely as Killarney replaced Bridesmaid. We ordered 30,000 grafting eyes. We have increased this order to 40,000, To give early delivery we must have the order early. Others are ordering. Get your order in and get delivery when you want it. Grafted plants only at the introducers' price.

HADLEY Deep rich crimson in color with an unequalled fragrance. An average producer of bloom that bring the top price of the market. A rose that will make money and a rose you need. If you want better roses and increased business, plant Hadley. It is a variety that a real rose grower will delight in growing. Our trade list for prices.

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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bougainvilleas

Bougainvilleas intended for Easter should now be given a place where they will be induced into action. A light bench, about 60 degrees at night, will do for the present. Keep them moist at the roots and syringe two or three times a day. When they show some advanced growth you can raise the temperature to 65 degrees, and as they become well furnished with foliage they can stand from 70 to 72 degrees at night, with from 10 to 15 degrees more with sun heat. Be very careful not to allow cold draughts to strike these plants. Just give ventilation enough on bright days to keep the temperature right. When started into full growth they will require a good supply of water at their roots, and as they become well matted with roots they can be liberally fed with liquid manure. Spread them apart and turn them around often to induce an even growth.

Candytuft for Memorial Day

This is a very good crop to grow for Memorial Day trade. Where it is wanted for that date it should be sown no later than the 20th of January. If vacant beds or benches are at disposal, sow it in rows 12 to 15 inches apart and rather thinly. Do not leave more than three or four good seedlings to the square foot, where fine stalks are wanted. If there are no empty benches in January, the best plan is to sow in 3-inch pots. Put half a dozen seeds in a pot and thin out to three. You can also sow in flats of light soil, but great care must be taken to pot off in good season, as candytuft seedlings do not transplant as easily as some other annuals. Place the pots or flats on a shelf or bench in a moderately cool and well aired house, with a temperature of not over 48 degrees at night. Water carefully. Do the necessary thinning in good season and spread out a little where the seedlings crowd. Use a generous soil such as would grow good chrysanthemums or roses in benches. Candytuft will not stand any coddling and does better in a night temperature of 45 degrees than 50. If your plants seem at all late you can run them a little warmer as the flowers open.

Easter Hydrangeas

If you have not already brought the hydrangeas into a cool house you should not lose any time in getting them in. These plants are always better when started cool until they have made some root action. A temperature of about 45 degrees at night will do for the start. In a couple of weeks they can have 50 degrees and about 60 to 65 degrees with sunshine. In order to make them break good give them a spraying overhead at least twice a day. These plants are lovers of sunshine, so see that they have a place where they can get it. In five or six weeks they should be standing a temperature of 70 to 72 degrees at night, which can continue until the trusses show color. After this the temperature should be gradually reduced until they stand at about 50 degrees at night. While making roots and top growth they will require plenty of water, as they are very thirsty plants. When they have a fair start they will stand manure water once or twice a week until they show color.

Gladioli

The market for gladiolus spikes is usually good in April and May, and fairly good in June, and there is not much likelihood of spikes being wasted even though a good many of them flower before and after Memorial Day. The first planting of the large-bulbed varieties, such as America, Augusta, etc., can now be done and do not omit a good number of that inexpensive, but excellent scarlet variety, Brenchleyensis, in addition to America, Augusta and Mrs. F. King. In order to have a good Memorial Day crop gladioli should be planted now in benches. Of course, so much depends on climatic conditions that it is not easy to hit the date just right with this crop. Again, the bulbs do not all flower at one time, which is, generally speaking, an advantage. Do not use any fresh manure which will come in contact with the bulbs. If you have no old manure, try fine bone and pulverized sheep manure, incorporating them well with the soil. To secure an early crop of such varieties as Colvillei The Bride, Peach Blossom and Blushing Bride, every week or ten days bring a few flats into a house kept at 48 to 50 degrees at night. A higher temperature will spoil them.

Propagating

From now on conditions are ideal for this purpose. Keep your bench full from now on, for all the advantages one could possibly wish for to be successful in getting cuttings rooted, are to be had right now. The fires are keeping a uniform heat in the sand; most of the stock plants are loaded from now on with cuttings, and there is but little sun to interfere with the unrooted stock. Every inch of space of the propagating bench, therefore, should be kept full of bedding stock in particular, practically every variety we make use of during the bedding season, and especially of the varieties of which we may be short. Cleanliness in and about the propagating bench is as important as anything. Don't overlook the fact that you should have clean sand. Old sand, or such as contains organic matter of any kind, is liable to cause trouble.

Salvias

Salvias will root in any moderately warm propagating bed. Be careful not to leave them too long in the sand after they are rooted. When potting use any good soil. In raising them from seed see that they are sown on new soil and pricked out just as soon as they are fit to handle, which will keep them from damping. They will do better if given a gentle bottom heat while they are young.

Mr. Farrell's next notes will be on the following: Care of Young Cyclamen; Carnations; Foliage Plants; Propagating Chrysanthemums; Swainsona; Pyrethrums.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Making Beauty Cuttings

To begin the operation first make sure that the propagating house is in good working order, the sand in good shape and everything ready to receive the cuttings. Then for the wood; select wood that has nice live thorns on it if it is at all possible. Wood with dead thorns is quite hard, and will be more difficult to root than the former. As soon as enough is cut to keep one busy for a little while, stick the lower ends into a tub of water so that the wood will not wilt in the least. It is also necessary to have a pail of clean water ready to drop the cuttings into as soon as they are made. Do not allow these to remain in the water for any length of time, but insert them into sand as soon as enough are made to make it worth while. A very important factor is a good sharp knife that will cut very smoothly and without crushing. A dull knife will crush the delicate tissues of the wood far more than one would think, and as a result many of the cuttings will begin to turn black from the bottom after being in the sand a little while. Have a good steel knife, sharpened and edged so that it will shave. Then there will be no fear of any harm from this source.

Two or Three-Eye Cuttings

With the Beauties we like the two-eye cuttings the best—that is leaving only one leaf and eye above the sand. Where two eyes are left above the sand the cuttings crowd too much and are very likely to get some disease that will clean out most of the foliage. Here is another point to heed; never leave any more foliage on a cutting than will be absolutely necessary to keep it alive. With Beauty, usually the two lower leaflets of a leaf will suffice. Should these be very small, then half of the next two can be left, too, giving the cutting plenty of chance to secure the necessary air.

Separating the Cuttings

Many growers will sort out the cuttings usually into three grades—hard, medium, and soft. We find that it is just as well to watch the cuttings as they are inserted into sand, and then plunge the harder wood deeper than those that are of softer wood. Thus the cuttings deeper in sand will receive more heat and more moisture as well, and will root in the same time as the others that receive less.

Propagating Various Tea Roses

All these are more or less in one family and will thrive almost equally under one treatment. We prefer to make cuttings with two leaves and three eyes on all these, and as many heel cuttings as we can get. In making hybrid tea cuttings proceed the same as with Beauties, selecting nice clean wood and, better still, wood especially grown for propagating purposes. Cut just below the eye and just above, as close as possible without injuring the vitality of the eye. It is a bad sight indeed to see a bench of cuttings look like a cut off forest with the stumps sticking up all over. All this is due to cutting too high above the top eye. It does not do any harm necessarily but the looks are enough to keep any man who takes pride in his work, from cutting thus, for it makes an unfinished looking job.

Dipping Cuttings

If you think there is any chance of red spider being on the leaves at the time the cuttings are made, you had better dip them in some one of the many preparations that are on the market. This will do away with many that may be lurking around, and if done well will not do the cuttings any harm. Make the solution a little weaker than recommended by the manufacturer, and do not allow the cuttings to remain in the solution any length of time. Merely throw them in and stir gently and then rinse them good in clean water again. Beauties are sometimes dipped into the ammoniacal copper carbonate mixture greatly reduced in strength, but if care is taken, no black spot need appear on the leaves, and the dip omitted, as the ammonia is none too good for the underside of the leaf where the breathing pores are. It is a fact that the upper side of a leaf will resist the action of many chemicals, which if applied in the same strength to the tissues on the under side would kill them.

Keeping Foliage Off the Sand

When the cuttings are being put into sand care should be taken to point the leaves all one way, and to keep the leaves from touching the sand. Not that they should stand straight up into the air, but there should be air space between the leaves and the sand. This will give the cuttings all the necessary air, and will keep them from contracting various diseases as well.

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Boltonias



BOLTONIA LATISQUAMA NANA.

As a distinct characteristic feature of the aspect of many hardy herbaceous gardens and borders during the month of August we notice the approach of those rich golden waves of color, which, from that time on are coming, rolling by and vanishing until frosts stop vegetation. It is the splendid spectacle of myriads of blossoms of the helenium varieties, the billows of gold of the rudbeckias, the warm tints of helianthus single and double, and the graceful panicles of the improved golden rods which compel our admiration. In case of those of us who are prone to look at certain hardy herbaceous plants as "unmanagable truck" their appearance is likely to justify the term. Fortunately, however, the number of craftsmen capable of mastering this material, and to go a step further, endowed with a clear conception of the artistic possibilities in the direction of beautiful alternate floral effects, are ever increasing. The wonderful variety of plants, in colors blending with the strong golden notes of late summer and early fall challenges individual ingenuity. Aside from late-flowering white phloxes, Chrysanthemum uliginosum and stellata, the bright blue panicles of Salvia azurea and Salvia Pitcheri and, the massive banks of blossoms of Eupatorium cœlestinum, we find in the different shades of hardy asters just the very notes which combined with yellow form most agreeable color accords. For the same purpose we should not fail to avail ourselves of the boltonias. The tall growing white Boltonia asteroides as a single plant or lined up in a single row draws little or no attention. Our opinion, however, is soon to undergo a radical change when seeing thickly growing plantations covering from 3 to 4 feet square. The white clouds of thousands of aster-like blossoms become irresistible. It is very similar with Boltonia latisquama. Reaching a height of from 5 to 6 feet this variety produces flowers of a beautiful soft rosy-lavender in great abundance. The demand for a low-growing type can be met by employing Boltonia latisquama nana, not exceeding 2 feet average height. The panicles of boltonias are freely branching. In a cut state used for filling vases they will be found long-lasting and graceful in effect.

Plantations thrive best in a rather light but richly manured garden soil. Throughout the north an open sunny exposure is a necessity; in the Middle Atlantic States I find boltonias also adapted for half shady positions. Propagation by divisions or from seed early in spring.

Richard Rothe

Riverton, N. J.

ORCHID NAMES.

Almost every amateur is anxious to raise a new hybrid orchid in order to have the pleasure of naming it himself. A few, however, do not wish for the trouble and time which the raising of a seedling takes, but much prefer to purchase a new and unnamed plant from one of the various trade growers. It matters little which method of procuring the plant is adopted, the amateur having the same privilege in either case. There is a wide difference between a new hybrid and a new variety. The former is produced by a combination of parents not previously effected; the latter applies to any variation differing from those already known or recorded.

Now the name of a hybrid is the word applied to a certain combination of species, and is, therefore, known as the specific name. It is of far greater importance than that given to a variety, and consequently requires considerably more care in its selection. Every time a variety is mentioned the specific name must always be repeated. The following are examples:—Cattleya Fabia var. Miss Williams, C. Fabia var. Emily R. Smith, and C. Fabia Stone House var. The specific name in this instance consists of but one suitable word, and its repetition is by no means objectionable.

The specific name of many hybrids consists, unfortunately, of more than one word, sometimes three, and the repetition of such long, unsuitable names is extremely awkward, as the following example proves:—Dendrobium Mary Jane Brown var. Miss Smith, D. Mary Jane Brown The Red House var., and D. Mary Jane Brown var. Sarah Ann Jenkins. Amateurs who take the responsibility of naming a new hybrid should always consider the other growers who in due course will produce plants with similar parentage, and who, by the rules of nomenclature, are bound to adopt the earliest specific name. These later hybrids are, of course, distinguished by a varietal name, which follows the specific one in a way similar to the name and variety of a species.

From the preceding remarks anyone will readily see the advisability of selecting a single word for the specific name of a new hybrid. Classical names are much to be preferred, although the name of the owner or raiser may be used in the Latin form. Varieties of species and hybrids can only be named in Latin when the character of the plant is expressed. Odontoglossum crispum roseum and Cattleya Holdenii alba are both correct, the latter word in each case expressing the character of the flower. But Odontoglossum crispum Smithii and Cattleya Holdenii Robertsii are incorrect, the use of Latin proper names for horticultural varieties being proscribed by the Brussels Congress of 1910.—*The Orchid World, London*

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Horticulture's advertising value

It has been the established policy of this paper from the start, to devote its reading columns more to the practical and serious side than to the merely local and frivolous. On this ground it has made its appeal for the support of the profession in whose behalf it has zealously labored and its circulation has been built up solely on this basis. The chances assumed in thus breaking away from established popular standards of florist trade journalism were fully realized but we had faith that the horticultural profession was now big enough and earnest enough to extend encouragement and adequate support to a journal devoted primarily to matters of more than cursory local value. The best evidence of the soundness of our proposition lies, first, in the number of HORTICULTURE's subscribers, which we believe to be, at present, little if any less than that attained by any other American trade journal in a corresponding number of years, and, second, the character and purchasing power of our readers, which we believe to fully equal in the aggregate that of which any one of our contemporaries can boast.

State forests for Massachusetts

A bill to establish State Forests has been prepared for presentation in the Massachusetts Legislature by the Commission on the Taxation of Wild or Forest Lands, with the co-operation of the Massachusetts Forestry Association. It provides for a commission with power to acquire woodlands, or land suitable for timber growth, to be known as State forests and to be developed by the State forester. A circular sent broadcast by the Forestry Association gives convincing reasons for the proposed action. It shows that one-fifth of Massachusetts, or about 1,000,000 acres, is unproductive waste land which, if only half of it were cared for under a system as in the city forest of Zurich, Switzerland, would eventually give regular employment to 15,000 men and occasional employment to many thousands more. The bill has been drawn with care; it shows intelligent consideration of a very vital subject, and marks the beginning of a determined effort to do what should have been done long ago by Massachusetts whose policy in this respect, hitherto, has been in no wise comparable to that of many of her sister states.

Fresh flowers that keep fresh

Insofar as we can judge by interviews with the retail store florists they are not particularly proud of their part in the dissemination of dried, dyed, or artificial material for Christmas or any other time, but they make the point that the public are insistent to have these things and that cut flower producers are contributory to this state of affairs in that they demand for their product prices that appall and discourage would-be buyers of fresh goods. The supply dealers, while pushing the dried material business, are nevertheless placing it in the power of the florist to supply the public with fresh cut flowers in most attractive and satisfactory form, in the pretty and serviceable baskets they provide, lined with tin receptacles for water in which flowers will retain their freshness for a long time. Penn the Florist, of Boston, is making a persistent effort to introduce these things to the buying public and we hope he will succeed as well as he has in some other innovations which he has introduced. Each day his window shows a fine assortment of these dainty arrangements, in which all the market staples from cattleyas down to stevia are given a chance. The latitude for artistic combinations of colors and form is unlimited and a florist who has the requisite taste can do much in this way to awaken his customers to the absurdity of artificial things when so much natural beauty is at hand.

CELERY NOT KEEPING.

Editor HORTICULTURE:

Celery here has kept very poorly this year, for the centers rot away. Not what is called a dry rot but just a wet dirty rot. Other bunches that are not attacked with this are very light in weight and the white part, as I might say, is just like straw. Do you think that there is anything that can be done to prevent this? Do you think it was the drought we had last summer? Isn't a good way to pack celery for winter to put the roots firmly into wet sand, and put bunches about four to six inches each way? The atmosphere is dry and cool but not cold enough to freeze.

Dalton, Mass. C. S., Jr.

Replying to the foregoing would say that the treatment received last summer would not cause the trouble mentioned. Apparently, after storing, the plants have been allowed to sweat—probably through lack of air. Many use the same method of storing the roots in sand successfully, (soil will answer the same purpose at the roots) which shows the other conditions must have been wrong somewhere. A temperature of 35 to 40 should be aimed at; at the same time keep on some air to prevent sweating. Rectifying the atmospheric conditions is all that can be done now as any that have already started to go in the center will continue. The severe weather experienced in some sections of the country make it compulsory to lift and store celery in cellars or pits. Here this method is not followed. The plants are set in double rows nearly on the level, which is done to make them more easily accessible when fighting rust in the fall. Earthing up is left as late as possible, after which the sides and the top, up to foliage that is left exposed, is protected with dry leaves, these being covered over with a thin layer of soil to prevent their blowing away. Loose straw litter is thrown over the tops as the bad weather comes and removed when mild. If wide boards are nailed together and placed so ∧, directly over the rows it will save the litter breaking any foliage and turn most of the water to the sides. These should not be longer than eight feet or they will be difficult to handle. The exceptionally mild weather experienced this fall has been a detriment to good keeping of celery.

J. J. M. Farrell.

So. Norwalk, Conn.

SWEET PEA BUDS DROPPING.

Editor HORTICULTURE:

I would like to have a little information in regard to my sweet peas coming about half of the stems single flowered. They commenced blooming Christmas week. They have no disease of any kind. They are planted two feet apart in a good loam soil, rows running north and south and grown in a temperature of 50 at night and from 60 to 65 during the day. I have watered them about three times with sheep manure water, putting a peck to a 50-gallon barrel of water. They stand now about five feet high. The varieties are Christmas White and Pink, Mrs. Wallace and one other pink. They start with two buds but one will drop off, leaving only one flower, and the stems now are about five to seven and twelve inches. If some one could tell me what is the cause I would be very much obliged to him.

I have given them dressing of lime also, and one dressing of rose growers' bone flour, two days ago. They are throwing out side shoots now but some of the leaves at bottom are beginning to turn yellow and drop off. Is that any harm or will they do it when they get along in age? I have not had much experience in growing sweet peas in the house.

Shelburn Falls, Mass. J. W.

In reply to inquiry regarding buds dropping on sweet peas, would say that the last two weeks have been ideal weather for bud drop. The only remedy I would suggest would be to run the temperature a little higher, particularly in mid-winter—say 52 at night to 70 by day; 67 I think the proper temperature on sunny days and 60 on cloudy days. The atmosphere should never get clammy or dead. There should be just enough heat and air stirring to keep the atmosphere sweet. The vines would show a little soft growth by increasing the temperature in this cloudy weather, but that cannot be helped if the buds are to stick. Running them a little warmer and not over-watering them is the only solution for buds dropping.

Yours truly,

William Sim.

Cliftondale, Mass.

ANTS.

Editor HORTICULTURE:

Will you please publish the best remedy for ants in a conservatory adjoining the house, which cannot be fumigated with gas.

Yours truly,

Brooklyn, N. Y. C.

I take pleasure in sending you our circular on Ants, and especially refer you to the paragraph on the back page, as quoted below. I think where fumigation is impracticable, this method of using a sponge in sweetened water will prove as good as any. Of course, if the ants can be traced back to the nest, which would probably be out of doors, then the injection of carbon disulfid would thoroughly rid the premises of these pests, but ordinarily the tracing of the ant lines back to the nest is attended with considerable labor and trouble.

Very truly yours,

Arthur I. Bourne, Assistant.

Mass. Agricultural Experiment Station.

Extract from Circular No. 7.

If the nest is in the wall of the house or cannot be found, various baits may be used effectively. It is stated that maple syrup mixed with London Purple in a low dish and exposed to the ants, not only killed large numbers but prevented the recurrence of the pests for a long time afterward. An old and popular remedy is dipping a sponge in sweetened water and placing it where the ants are, and when the ants have collected in the sponge it may be dropped into hot water. A greasy bone may be used in a similar manner. A few repetitions of any of these baits is generally sufficient, for the ants seem to communicate the intelligence of danger or disaster one to another and they all seek safer quarters. A broad chalk line is an effectual barrier for many species, especially if frequently renewed. Placing the legs of tables in shallow vessels containing water is another protection from this pest, and a ring of powdered cloves around an article it is desired to protect is generally effective.

DISEASED CARNATION FOLIAGE.

"F. L. T.," Hingham, Mass., who sent sample of diseased carnation leaves is informed that it is not possible to diagnose what is the matter with the plants, because the leaves were too much dried up, for one thing, and because a description of the symptoms and behavior of the plants is needed. The variety should also be mentioned and what treatment the plants have been given for the last two or three months. If F. L. T. will furnish the above mentioned information an expert opinion will be obtained. Also would ask F. L. T. to give his full address to this office.

BIRDS DO POLICE DUTY.

"Birds are an aerial police force concentrating quickly on any unusual irruption of insects or the lesser animals," said Edward Howe Forbush, State ornithologist, at the first of the series of lectures in Horticultural Hall, Boston. His subject was "Utilizing Birds in Horticulture."

He said that a single bird will eat 100 insects daily and that a hawk will save farmers hundreds of thousands of dollars by destroying field mice and grasshoppers. It has been calculated, he said, that in Massachusetts alone birds devour 2,560,000,000 insects each day. He stated that birds are especially valuable in protecting the trees in the woods and also the grass crops.

To utilize birds in horticulture, he advised attracting them to the desired locality, then protecting them and doing everything possible to increase their numbers. Owls are particularly valuable, he declared, because of their warfare on field mice. He advised attracting kingbirds and martins, which drive away birds of prey and protect smaller birds.

Kingbirds can be attracted, he said, by hanging cotton twine in pieces about 12 inches long on fences or the branches of trees. Orioles can sometimes be attracted in the same way, but the bird houses and food are the principal means of attracting birds, he said. He urged that children be taught to take an interest in the portection of birds.

FARMERS' WEEK AT PENN. STATE COLLEGE.

During Farmers' Week, which begun December 29, there were registered 975 visitors. Three of this number were large growers of Pennsylvania, namely, Jos. Heacock and son, of Wyncote, and Mr. Pyle, of the Conard & Jones Company, West Grove.

Mr. Pyle gave very instructive and interesting talks on the subject of the Rose. All three men were much pleased with what the Department was endeavoring to do with its meagre equipment and they will co-operate in making it the best ever.

The Short Course in Floriculture started three weeks ago with an enrollment of seven men who are all located in Pennsylvania. Three of this number have had a little practical experience. This branch of study is becoming more and more popular from year to year and it bids fair to become a valuable asset to the younger men who contemplate going into the florists' business. In addition to the short course men, there are 38 regular students who are receiving instructions in commercial floriculture.

A FLOURISHING BRITISH SOCIETY

At the annual meeting of the National Rose Society, held in London, on Dec. 11th, it was reported that for the first time in the history of the Society, the members total over 6,000. The president stated that the year had been the most satisfactory in the annals of the Society. They had put by the biggest sum than in any previous year, whilst the literature sent out was better than ever. During the proceedings a telegram was read from E. T. Cook, president of the Rose Society of Canada, sending fraternal greetings.

W. H. Adsett.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

Monday night, January 12, the opening meeting of the New Year saw a splendid gathering of the representative men of all branches of floricultural industry in and around New York, in the cosy club room on 23rd street. It was President Siebrecht's last appearance in the roll of presiding officer and before handing over the gavel to his successor he made a few brief but inspiring valedictory remarks, thanking the committees and members for their loyalty and assistance during the year. The new president, Wm. H. Duckham, having been escorted to the platform with stately dignity by John Donaldson and Walter F. Sheridan, made a graceful little speech, appreciative of the cordiality of his reception, and pledged his best efforts for the welfare of the club. Patrick O'Mara then stepped forward and on behalf of John B. Nugent and with characteristic eloquence presented the president with a handsomely engraved ivory gavel which was accepted with words of due appreciation. Then were severally installed the other officers, after which resolutions of condolence on the death of Mrs. Warendorff were read by Mr. Guttman and the yearly reports were read by the various officers. From the treasurer's report it appeared that the club has a cash balance in bank of $5,703.71. The secretary's report showed the list of members to number 423 at the present time. Five new members were added and seven more proposed. A vote was recorded endorsing W. H. Maynard as a candidate for the position of Commissioner of the Bronx Parks. Adolf Affiliation Farenwald of Roslyn, Pa., was called upon for remarks and responded in acceptable style.

After a recess, L. W. C. Tuthill gave the promised talk on Advertising. It was crisp, epigramatic and keenly convincing. He took the ground that the time was not far off when the producers would have to unite in a general publicity campaign to better acquaint the public with their goods. Referring to the various kinds of advertising, profitable or otherwise he said: "It isn't the quantity of noise you make, but the kind of noise." Max Schling followed Mr. Tuthill in his own inimitable style. His approved form of advertising for the retail florist was to talk through his work and his art, first, last and always. Then came M. C. Ebel with his views which coincided closely with those expressed by Mr. Tuthill. Wallace R. Pierson followed with a criticism of the methods pursued by the florists' trade papers and what he considered the abuse of advertising privileges. Patrick O'Mara remarked that "a really good thing will sell itself but a really good thing well-advertised, will outsell itself." "Originality" was the keynote of his interesting talk. He was a believer in liberal advertising and declared that anyone who wants to get ahead must get on the housetops with what he has to offer, but he must present it in a new and original way or it will fall flat. Prof. Beal of Cornell then addressed the meeting, expressing the desire on behalf of the college, to be of more practical benefit to floriculture and to help solve the many problems confronting the florists. He urged the great need of more greenhouses and other facilities at the college.

On the exhibition table were the following: Begonia Florence Davenport, from R. J. Irwin; Carnation Laura Webber, from Charles Webber; Carnation Rosette, from Bergenfield Nurseries; Winter flowering sweet peas, from H. Pye. The Begonia was awarded a certificate of merit; the others, votes of thanks. Carnation Laura Webber had already been given a preliminary certificate.

The president appointed the following committees:

Legislative—F. R. Pierson, P. O'Mara, W. F. Sheridan.

Essay—L. W. C. Tuthill, J. R. Lewis, M. C. Ebel.

Awards—Jos. A. Manda, Frank H. Traendly, Robert Simpson, John Donaldson, I. S. Hendrickson, Julius Roehrs, Chas. H. Totty.

Exhibition—Wm. H. Siebrecht, Sr., John Miesem, Chas. Schenck, Max Schling, W. E. Tricker.

House—Frank M. Duggan, Alex. Guttman, George Mustoe.

Dinner—J. B. Nugent, T. B. de Forest, Robt. Koehne, Jos. Fenrich, Geo. E. M. Stumpp, Andrew Scott.

Outing—W. E. Marshall, Louis Schmutz, Jr., Philip Kessler, A. E. Wheeler, Anton Schulthies, Jr., R. J. Irwin, A. M. Henshaw, Al. Rickards, Robt. G. Wilson, George Siebrecht, Emil Schloss, A. L. Miller.

Resolutions on Death of Mrs. Chas. Armitage—Frank H. Traendly, L. W. C. Tuthill, A. L. Miller.

Transportation, Carnation Society Meeting—Robert T. Brown, Wallace R. Pierson, J. H. Pepper.

AMERICAN SEED TRADE ASSOCIATION.

A meeting of the executive committee of the American Seed Trade Association was held at the La Salle Hotel, Chicago, Friday, Jan. 9th, with the following members in attendance: President C. C. Massie, Secretary C. E. Kendel, Messrs. C. N. Page, Kirby B. White, L. B. McCausland and F. W. Bolgiano, of the executive committee; Messrs., Albert McCullough, Geo. S. Green and A. H. Smith, of the legislative committee, and by invitation Messrs. A. E. Reynolds, C. D. Boyles, J. C. Vaughan, S. F. Leonard, H. W. Wood and Curtis Nye Smith.

Washington, D. C., was chosen for the next convention, to be held June 23-25, 1914. A motion was passed, recommending that the convention in 1915 be held in California and a letter from Hon. W. W. Griest, M. C., requesting action on his bill H. R. 7473 reducing the rate on local and drop letters to one cent per ounce or fraction and on other first-class mail to two cents for the first ounce or fraction and one cent for each additional ounce, was referred to the Postal Laws committee. A tentative program was arranged which will be reported upon later.

NATIONAL ASSOCIATION OF GARDENERS.

The first quarterly meeting for the year 1914, of the Executive Board of the National Association of Gardeners, was held on Thursday afternoon, January 8th, at the Murray Hill Hotel, New York City. President William H. Waite called the session to order promptly at 3.15 p. m., these members being present: Thomas Logan, William Kleinheinz, John H. Dodds, James Stuart, John F. Huss, Robert Bottomley, John H. Shore, Arthur Smith and M. C. Ebel.

Several important matters were brought up for consideration by the Board, among which was an appropriation to properly advertise the Service Bureau to acquaint owners of estates and others requiring the services of gardeners that the National Association of Gardeners' Service Bureau is maintained solely for the purpose of providing efficient and trustworthy gardeners and without charge to employer or to applicant. It was voted to make the appropriation.

The establishing of a closer co-operation between the National Association of Gardeners and the various local horticultural and gardeners' societies scattered throughout the country was favorably considered. The secretary was instructed to write to the different societies interested in horticulture to obtain the views of their members on the desirability of a closer co-operation between the N. A. G. and the local societies in the interest of furthering the development of horticulture and of advancing the profession of gardening.

In response to a communication received from William F. Gude, chairman of the William R. Smith Memorial Fund Committee appointed by the S. A. F., asking that some appropriate action be taken in the matter of securing funds, William Kleinheinz was appointed to confer with Mr. Gude on ways and means whereby the National Association of Gardeners might co-operate with the National Committee to secure a suitable memorial for the late William R. Smith.

It was decided to enforce the by-laws providing that a member in arrears for dues for more than two years, be suspended. The secretary was instructed to drop all delinquent members from the roll, the concensus of opinion being that the interest of the association will be best served by having for its membership only such as are sufficiently interested to be in good standing. President Waite reappointed William Kleinheinz, Ogontz, Pa., Peter Duff, Orange, N. J., and James Stuart, Mamaroneck, N. Y., to serve on the committee to judge meritorious exhibits during the year 1914.

After the conclusion of business the meeting adjourned to the dining room of the hotel where the members present became the guests of President Waite.

The next executive meeting will be held in Philadelphia in April, the exact date to be named later by the president.

A Gardeners' Reunion will occur in

New York City during the flower show in March, which will include a bowling tournament and a dinner in the evening.

AMERICAN CARNATION SOCIETY.

At the meeting in Cleveland, Ohio, on January 28-29, Jos. H. Hill will read a paper on the productiveness of the standard varieties of carnations and the cost of producing blooms. A. T. Pyfer will read a paper on carrying carnation plants for blooming purposes over more than one season. Any member who has records of blooms cut, or who has ever carried carnation plants over more than one season, is requested to bring his records or experience along with him, so that both subjects may be discussed thoroughly.

Members will also bear in mind that



R. T. Brown.
President, American Carnation Society.

time for filing entries closes on Monday, January 19th. After that date entries may be filed by paying a charge of $2.00 per entry.

A. F. J. Baur, Secy.
Indianapolis, Ind.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of this society, was held at Greenwich, Conn., on Friday evening, Jan. 9. This society has made phenomenal growth since its organization in December, 1910, starting with fourteen members and now numbering 250. Three fall shows have been held, also two summer shows, all decided successes. A feature of the meeting is the non-competitive exhibits of flowers, fruits, vegetables, etc.

The annual entertainment and social night will be held at Stamford in the Jr. Mechanic's Hall, Wednesday evening, February 4th. Dancing will follow the entertainment.

Visitors at this meeting were Jos. Manda, of West Orange, N. J.; also Messrs. Cumming and Beers, of the A. N. Pierson Co., Cromwell, Conn. The exhibits were also very fine and the judges made the following awards:

Carnations, scarlet sport of Harlowarden, by A. Wynne, honorable mention; Laelia Gouldiana, by Adam Patterson, honorable mention; string beans, Early Mohawk, by C. A. Hokenson, vote of thanks; mushrooms, by J. T. Burns, honorable mention; Primula malacoides alba, by F. Lagerstrom, vote of thanks; Buddleia asiatica, grown by James Stuart, honorable mention; Oneidium splendidum, by P. W. Popp, cultural certificate; A. N. Pierson Co., certificate of merit for the new rose Hadley, and honorable mention for Enchantress Supreme carnations.

The date of the next regular meeting will be Feb. 13th. Best wishes to all for a prosperous new year.

P. W. Popp, Cor. Cec.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Further extension of the activities of the Massachusetts Horticultural Society along practical lines was suggested by President J. K. M. L. Farquhar in his annual address at the inaugural meeting of the society on Saturday, Jan. 10. Among the possibilities of the future he spoke of interesting the young in the garden and instructing teachers so that they may be taught methods that will bring the encouragement of being successful in their efforts to help young gardeners and florists to a better knowledge of their calling, and to help all interested in garden work to a better understanding of it from the occupant of the city apartment limited to a window box to the owner of the large estate in the country. Something along this line is to be undertaken in the practical demonstration of garden work to be given in the society's lecture room. These demonstrations will supplement the society's regular Saturday lectures.

Reports of various committees were presented. Mrs. Francis King delivered a very interesting lecture on Flower Groupings in a Michigan Garden, with stereopticon slides in colors.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, January 20, 1914, at 7.30 o'clock. The newly elected officers will be installed and treasurer's, secretary's and other reports for 1913 will be read. This being ladies' night, regular business will be shortened so as to allow everyone to enjoy the entertainment which will be far and away the finest the club has yet had. After refreshments have been served, there will be dancing until midnight. Admission will be by ticket, which will be forwarded to all members.

Carnation night will be kept on February 17, when all the leading novelties will be shown.

W. N. Craig, Sec'y.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that as no objection has been received or filed to the registration of the Zonal Geranium, John Meyer, and the Pelargonium, Eastern Star, by F. H. De Witt & Company, of Wooster, Ohio; and the rose, Mrs. F. F. Thompson, by Charles H. Totty, of Madison, New Jersey, and the rose, September Morn, by Dieterich & Turner, of Montebello, California, same become complete.

JOHN YOUNG, Sec'y.
January 10th, 1914.

NEW BEDFORD HORTICULTURAL SOCIETY.

The annual meeting of the New Bedford (Mass.) Horticultural Society was held at its rooms in the Standard Building on Monday, Jan. 5, 1914, President Barrows presiding. The Secretary's report indicated a growing interest in the society as evidenced by a large increase in membership. The treasurer's report showed a gain in that department in spite of the fact that the society had held four free shows during the year and had con-



David F. Roy.
President, New Bedford Horticultural Society.

tributed largely to the tree planting movement.

The following officers were elected: President, David F. Roy of Marion; vice-president, John I. Paulding; secretary, Jeremiah M. Taber; treasurer, Walter A. Luce; executive committee: William Keith, chairman; James Garthly, Arthur E. Griffin of Marion, Frank C. Barrows, Frank G. Tripp, Edward E. Shaw, L. J. Hathaway, Jr.

Miss Sarah B. Fay of Woods Hole, was voted a life membership. Miss Fay has been a large factor in the success of the rose show in the past years and rendered valuable assistance in encouraging rose growing among the amateurs. Frank C. Barrows, the retiring president, was presented a diamond scarfpin in token of the members' appreciation of his long service in that office and his untiring efforts in behalf of the organization.

D. F. Roy, president-elect is popular and able and will give the society an up-to-date administration. He is superintendent of the big estate of Col. H. E. Converse, which has been made one of the show garden places of New England through his horticultural ability.

Snapdragons----New and True Winter Flowering

I now offer this tested strain for the first time, in two distinct colors — **Pure White** and **Golden Yellow.** This novelty has been grown and developed for the past ten years by me and has proved to be continuous and profitable **Winter Bloomers,** producing a reliable mid-winter cut-flower crop.

Well rooted cuttings $10.00 per 100, *to the trade only.* Stock limited. Orders booked now, for deliveries in rotation after March 1st. Can also be obtained from J. Breck & Sons, Boston, Mass.

H. HUEBNER, Groton, Mass.

WORCESTER COUNTY (MASS.) HORTICULTURAL SOCIETY.

The lecture course for the season of 1914 has been arranged as follows:

Friday, Jan. 2, Bird lecture, by F. Schuyler Mathews, Cambridge; Thursday, Jan. 8, illustrated lecture, "Alpine Flowers," by Herbert W. Gleason, Boston; Thursday, Jan. 15, "Fruit Conference," report of delegates to the American Pomological Society meeting in Washington, D. C., David L. Fiske, Grafton, and discussion; Thursday, Jan. 29, Ladies' Day, talk on Indian Life, Legends and Songs, by Miss Bee Mayes (Pe-Ahm-E-Squeet), Floating Cloud, of Boston; Thursday, Feb. 5, "Vegetable Growing and Marketing," by H. W. Tinker, Warren, R. I.; Thursday, Feb. 12, illustrated lecture, "Travels in South America," by Prof. George H. Blakeslee, of Clark College; Thursday, Feb. 19, illustrated lecture, "Co-operation and Marketing as Seen in Europe," by J. Lewis Ellsworth; Thursday, Feb. 26, "Seed Growing," by S. F. Willard, Wethersfield, Conn.; Thursday, March 5, Spring Exhibition.

CLUB AND SOCIETY NOTES.

The 39th annual meeting of the American Association of Nurserymen will be held June 24-26, 1914, at the Hollenden Hotel, Cleveland, Ohio.

As we go to press the New York Federation of Floral Clubs is in session at Cornell University, Ithaca. Full report of the meeting will appear in next week's issue.

All the officers of the Kansas City (Mo.) Florists' Club were re-elected at the meeting on January 2d, as follows: President, G. K. Parker; vice-president, F. B. Fromhold; secretary-treasurer, W. L. Fowler.

The Executive Committee of the American Rose Society held a session in New York on Monday, January 12, at the office of Traendly & Schenck. There were present President W. R. Pierson, Secretary Benj. Hammond, Treasurer Harry O. May, Robert Pyle of West Grove, Pa., Eber Holmes, Montrose, Mass., S. S. Pennock, Phila.

The ninth annual convention of the State Horticultural Society, State Nurserymen's Association and State Beekeepers' Association will be held at Nashville, Tenn., on January 28th, 29th and 30th, 1914. The headquarters chosen will be at the Maxwell House. The meetings will be held in the Assembly Room of this hotel.

The Masonic Grand Lodge will be in session during the week, for which occasion the railroads of the state give a special round trip rate to Nashville. There will be a large exhibit of fruit. The Joy Floral Company has invited the members attending the conventions and their friends to visit their greenhouses. The Atlas Powder Company will have a demonstration showing the use of dynamite in horticulture.

Under the auspices of the Horticultural Society of New York, there will be a lecture in the East Assembly Hall, American Museum of Natural History, New York on Saturday, Jan. 17, at 4 o'clock, by Edwin Jenkins, of Lenox, Mass., on Sweet Peas.

Mr. Jenkins gave a very interesting and practical lecture before the society about a year ago on the rose. He is an enthusiastic sweet pea grower, and will undoubtedly give practical hints and information as to the cultivation of this popular flower. A good audience should greet him. At the same time there will be an exhibition of orchids, carnations and sweet peas.

The 59th Annual Meeting of the Western New York Horticultural Society will be held at Convention Hall, Rochester, N. Y., on January 28, 29 and 30. The program, which has just been issued, is quite lengthy and covers an unusual number of topics appertaining to fruit culture and garden vegetables. There is one talk on the reforestation of the Genesee Valley, but strangely enough, this organization although bearing the name of "Horticultural" gives no attention to ornamental trees, shrubs or flowers or other garden products except those aboved named.

The New Jersey Floricultural Society met Jan. 5th at Orange, N. J. The list of awards were as follows:

Wm. Reid, 1st, with Cypripedium Leanum; A. P. Nezel, 2d, with vase of roses; Max Schneider, 3d, with Begonia Gloire de Lorraine.

Non-competitive—Vote of thanks to Emil Panuska, for Libonia floribunda; Max Schneider, for Roman hyacinths; A. P. Nezel, for mignonette and carnations; Frank Drews, for cypripedium, and Chas. Ashmead highly commended for carnations and camellias.

The society holds its 19th annual dinner at the Plaza Hotel, Orange, N. J., on Feb. 2nd.

GEO. W. STRANGE, Sec'y.

The St. Louis Florist Club held its regular monthly meeting on Thursday, Jan. 8th, 35 members were present. The main topic was the holding of a spring flower show and after a long discussion it was voted not to hold it this year. The question of a fall show this year was left in the hands of the Publicity Committee. The club's 28th anniversary banquet was discussed and the time and place was left in the hands of the trustees.

R. J. Windler spoke as to his duty as State vice-president for the S. A. F., and asked for co-operation from the members, which was promised. John S. Carter, president of the Nicotine Mfg. Co., also gave a nice talk on what he thought would be a good plan to run a paying flower show.

The Elberon Horticultural Society held its regular monthly meeting January 5th with a large attendance present. It was decided to hold a Chrysanthemum Show in Asbury Park, New Jersey, this fall, for which an exhibition committee was appointed. It was also agreed to hold Carnation Night on Monday, Feb. 2nd. And all those desiring to exhibit new varieties can do so by sending them to William Bryan, florist, Elberon, N. J., who will see that they are properly staged. They may be sent by mail, United States Express or Adams Express as most convenient. A prize will be offered for the best vase of twelve, also cultural certificates. The newer varieties will also be passed upon by the judges.

Our president gave a very instructive talk upon the culture of Celosias, dwelling especially on the variety Castle Gould. Altogether this meeting has been one of the best the society has held for a long time.

WILLIAM BRYAN.

The Washington Florists' Company, Gude Bros. Company, and Dr. W. W. Evans, the latter a florist of Hamilton, Va., placed a number of new and popular roses and carnations on exhibition at the January meeting of the Florists' Club of Washington. Prince D'Arenberg caused considerable comment. The members compared the two roses and there were many who favored it in preference to Richmond. It is stated that apparently the darker the weather the finer is the color of the flowers which average 40 to 45 petals each. The Washington Florists' Company also exhibited a very dark rose which goes under the name of the Black Prince. The exhibition of Gude Bros. Company consisted of Benora carnations, Sweetheart, Mrs. Ward and Fire Flame roses, and sweet peas. Dr. Evans introduced Mary Meadow, a pink, and Burns Scarlet carnations, which received favorable mention. A resolution was adopted congratulating Mr. George W. Hess on his appointment as superintendent of the National Botanical Gardens. A. F. Faulkner, of New York, being present, was called upon to say a few words. Following the serving of refreshments adjournment was taken.

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Elegans. Rose purple, tipped white	4
Eric Fisher. Buff, striped scarlet	6
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Gaiety. Yellow, striped red, tipped white	4
Gem of the Beauty. Flesh, tipped darker	4
Geo. Barnes. Fancy lilac, striped crimson	12
Golden Ball. Pure yellow, fine	4
Golden Age. Pure sulphur yellow	4
Gov. Davis. Salmon, large and full, long stems	8
Harbinger. Peach color	4
Hector. Light orange	4
Henry Patrick. Pure white, fine	8
Imperial. Deep purplish maroon, extra fine	4
John Sladden. Dark maroon, almost black, large	4
John Bennett. Yellow, edged scarlet	5
John Thorp. White base, edged pink	4
Keystone. Purple lilac, striped crimson, large	8
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Menfine Beauty. Deep scarlet	4
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Meteor. Bright red, very large	4
Margaret Bell. Deep pink or light magenta	4
Maid of Athens. Dark magenta	4
Mrs. Langtry. Yellow at base, edged crimson	4
Mrs. Dexter. Salmon, full	4
Mrs. Stancomb. Salmon pink	5
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Orator. Salmon buff, large	4
Puritan. White, striped maroon	4
Pink Magenta. Very full bloomer, long stems	4
Queen of Yellows. Dark yellow	4
Queen Victoria, or **Mary D. Hallock.** Canary yellow	4
Quaker Lady. Shade brown, tipped white	3
Robert Warner. Deep crimson, large	6
Robert Broomfield. Pure white	4
Robin Adair. Terra cotta	5
S. Sickmon. Dark maroon, tipped white	6
Storm King. Pure white, extra fine	6
Striped Banner. Deep red, striped white	4
Thos. Austiss. Purple	8
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White Bedder. White, fine for borders and lawns	4
White Queen. Pure white, free, strong grower	8
White Swan. Pearly white	6
Wm. Neats. Soft reddish fawn	4
Wm. Garrett. Cardinal red	4

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Antelope. Deep rich yellow, suffused with bronze, very attractive	10
Aiger. Bright red	8
Aunt Chloe. Very dark maroon, fine	5
Arab. Rich velvetry maroon	5
Blanch Keith. Yellow, long closely quilled petals	8
Brittania. Soft salmon pink, large	8
Borneman's Leibling. Delicate soft rose pink	8
Brunhilda. Rich plum color	8
Chas. Woodbridge. Bright crimson	6
Countess of Lonsdale. Deep salmon red, one of the best grown	$8
Cornucopia. Deep reddish salmon, fine	8
Clara G. Stedwick. Clear bright salmon, shaded yellow at the base, long petals, very large and fine	6
Capstan. Soft red, tinted apricot, fine	4
Delight. Pale pink, yellow centre	8
Dr. Jameson. Deep crimson, free	3
Dainty. Lemon yellow, tips of petals golden, base rose pink	6
Emperor. Pure plum yellow at base	8
F. H. Chapman. Yellow, overlaid orange	8
Floradora. Wine crimson	8
Flamingo. Clear flame color, large	8
Fred Cobbold. Bright crimson, large	8
Fusileer. Deep salmon, good	4
Gen. Buller. Rich crimson, nearly black at base of petals, white tips	6
Genista. Amber, shaded to golden yellow	6
Green's White. Pure white	8
Harbor Light. Vivid orange red overlaid flame color	6
Harmony. Reddish bronze	4
Ida. Deep clear yellow, very early	8
Island Queen. Mauve	4
J. H. Jackson. Black maroon	4
J. Weir Fife. Very dark maroon	4
John Roach. Soft yellow	6
Keynes White. Pure white, fine	4
Kreimhilda. Pleasing shade of pink, center almost white	6
Lady Fair. Primrose, tinted soft pink.	8
Laverstock Beauty. Soft red	6
Lord of the Manor. Fiery scarlet, greenish yellow center	8
Libelle. Clear magenta, extra fine	6
Manxman. Rich orange center shading to soft pink, purple tips	12
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Mrs. H. J. Jones. Scarlet, edged cream, tipped white	6
Mrs. DeLucca. Golden yellow, tipped orange	8
Mrs. Murray Ind. Bright rose	6
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Mrs. Jowett. Deep salmon	10
Mrs. Wintersley. Deep scarlet, yellow center	4
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Mrs. Bennett. Soft crimson	4
Mrs. Charles Turner. Clear soft yellow, extra fine large flower	4
Mary Service. Pinkish apricot	4
Octopus. Nearly white, showing a tinge of lavender	4
Ophir. Soft apricot, lighter in center	6
Porcupine. Scarlet maroon	4
Princess Mary. Pale terra cotta	6
Prince of Yellows. Soft yellow, good	4
Primrose Dame. A clear yellow, fine	4
Spitfire. Scarlet, back of petals deep orange	8
St. Catherine. Deep yellow, shaded red	4
T. A. Havemeyer. Clear yellow at base deepening to bronze	8
Uncle Tom. Improvement over Night, almost black	5
Vesuvius. Yellow, striped crimson	8
Wm. Treseder. White, shaded pink	8

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	Separated Price per 100
Beauty of Brentwood. Plum striped maroon	$4
Black Decorative. Almost black	4
Black Prince. Velvet maroon	4
Bronze Beauty. Bronze, tip white, very large	8
Catherine Duer. Beautiful glowing red.	5
Clifford W. Bruton. Bright yellow	4
Clarabel. Purple	4
Cora Gleason. Deep purple	4
Countess of Pembroke. Light lavender	4
Deacon. Crimson scarlet	4
Dolly, or Sylvia. Flesh, tipped darker.	3
Frank Bassett. Royal purple, profuse bloomer	6
Gigantea. Very large, yellowish white	10
Grand Duke Alexis. Pure white, edged lavender, large	8
Helene Chavet. Large, waxy white	8
Himmilsche. Light purple lavender	4
Jack Rose. Very dark crimson	$6
Jeanne Charmet. Pink, lilac edge, white center, yellow margin, long stem	10
J. P. Laird. Dark maroon	8
La Favorite. White	6
Les Alles. Pinkish white, striped rose and purple	6
Lockenkoff. Yellow	4
Lyndhurst. Bright scarlet, very free	4
Mrs. A. Peart. Pure white	8
Mrs. Hartong. Deep orange, tipped pink	6
Mrs. Geo. Reed. White, deeply edged rose	4
Mrs. Winters. Pure white, very large.	10
Mme. Van Den Deal. White, deeply edged lively pink	4
Maid of Kent. Cherry red, tipped white, sometimes a solid flower on the same stalk	4
Morning Ray. Deep bronze, long stems, large	10
Mahala Sheriff. Pure white	4
Mary Hiller. Deep salmon	6
Minos. Almost black, fine	5
Nymphaea, or **Pond Lily.** Shrimp pink, tinted lighter	4
Oban. Mauve, fine	4
Progress. Lavender striped and blotch-crimson, free bloomer	8
Souvenir De Gustave Douzon. Orange red, largest flower grown	4
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Wm. Miller. Brilliant purple, large	4
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Achilles. Base of petals flesh, tipped pink	$3
Alewine. Delicate pink, tinted lilac	4
Bobby. Deep plum color, extra fine	3
Brunette. Crimson, blotched white	4
Belle of Springfield. Dark scarlet	5
Catherine. Bright yellow, full and fine	5
Clara Harsh. Yellow, tipped crimson.	4
Darkness. Very dark maroon	4
Darkest of All. Nearly black	4
Fashion. Bright orange	4
Fascination. Pink and Lavender, sometimes a blotch of white	3
Fairy Queen. Sulphur, edged pink	3
Gold Sphere. Crimson, gold back	3
Grus Au Wein. Crushed strawberry	4
Henrietta. Yellow, tipped crimson	4
Hilda Searle. Orange scarlet	4
Jarcosky. Yellow and white	4
Little Prince. Crimson, tip white	4
Little Bessie. Creamy white, extra fine	4
Little Jennie. Primrose yellow	4
May Clift. Light maroon	4
Madeline. Primrose, edged rose purple	4
Mars. Scarlet	4
Prince Charming. Cream, tipped purple	4
Purity. Fine (pure) white	5
Pure Love. Pure lilac	4
Red Indian. Deep coral red	4
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Winfred. White, tipped lavender	4

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White Gem.

A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt., 25c.; oz., $1.00.

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Light Blue	.20	.85
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PETUNIAS.

Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt., 60c.; trade pkt., $1.00.

Boddington's Snowball Double. The finest double; pure white. ½ trade pkt., 60c.; trade pkt., $1.00.

BODDINGTON'S CENTURY PRIZE. Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. ½ trade pkt., 60c.; trade pkt., $1.00.

	Trade pkt.
Boddington's Bar Harbor Beauty, Single. Color a beautiful rose.	$0.25
Boddington's Ruffled Giants. A grand selection of single fringed Petunias	.50
Boddington's Inimitable Dwarf Compact Hybrids, Single	.25
Emperor, Single. Large blossoms, distinct in form, coloring and marking	.50
Howard's Star. Rich crimson with a distinct white star in center	.25
Rosy Morn. Soft carmine pink	.25
Snowstorm. Pure single white	.25
Hybrids, Single Mixed Oz., 50c.	.15

PYRETHRUM.

	Trade pkt.	Oz.
Aureum (Golden Feather)	$0.10	$0.25
Selaginoides. Foliage fine serrated	.15	.50

SHAMROCK.

	Trade pkt.	Oz.
(True Irish). Small leaved ½ trade pkt., 25c.	$0.40	$1.00

SALVIA.

	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1½ ft.	$0.25	$2.00
Splendens (Scarlet Sage)	.25	1.50
Splendens, Ball of Fire. Very dwarf and early	.25	3.50
Splendens aucubaefolia (Silver-spot)	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf	.25	
Splendens gigantea	.25	
Splendens pendula. Drooping spikes	.25	2.00
Splendens, Zurich. ¼ oz. $1.75	.25	6.00

STOCKS.

Boddington's Quality Large-Flowering German Ten-Weeks Stocks.

	Trade pkt.
Brilliant Rose	$0.25
Canary Yellow	.25
Crimson	.25
Dark Blood Red	.25
Dark Violet Blue	.25
Dark Purple	.25
Flesh Color	.25
Light Blue	.25
Scarlet	.25
Snow White	.25
Fine Mixed	.25

Boddington's Quality Cut-and-Come Again.

These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.
Princess Alice. White	$0.25
Apple Blossom. Light pink	.25
Peach Blossom. Soft pink	.25
Chamois	.25
Bridesmaid. Rose	.25
Canary. Yellow	.25
Flamingo. Blood red	.25
Blue Jay. Light blue	.25
Violet. Dark blue	.25
Carminea. Crimson	.25

GIANT PERFECTION STOCKS.

White.

Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 25c, ¼ oz. $1.25, ½ oz. $2.00, oz. $3.75.

QUALITY VERBENAS.

	Trade pkt.	Oz.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors. Mixed	$0.25	$1.75
Boddington's Mammoth Auricula-flowered. Large flowers with distinct white eye	.25	1.75
Boddington's Mammoth Blue	.25	1.75
Boddington's Mammoth Pink	.25	1.75
Boddington's Mammoth Scarlet Defiance. The finest scarlet sort	.25	1.75
Boddington's White (Candidissima). Pure white	.25	1.75
Boddington's Striped. Many colors	.25	1.75
Lemon (Aloysia citriodera)	.25	1.50

VINCA.

	Trade pkt.	Oz.
Alba. White	$0.15	$0.75
Rosea. Rose	.15	.75
Rosea alba. Rose and white	.15	.75
Mixed	.10	.40

We are headquarters for SWEET PEAS of every description. Our Wholesale Catalogue of Quality Seeds and Bulbs (now ready) contains 52 pages of Seeds and Bulbs you need. Write for it today—a postcard will fetch it.

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SEEDSMAN **342 West 14th St., NEW YORK CITY**

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Business Expansion.

The following notice, taken from The Public Ledger, Dec. 30th, 1913, is an indication that Philadelphia is still keeping up its reputation as a seed center and also that Henry A. Dreer, Inc., are continuing to make a healthy growth.

Settlement was made yesterday by William F. Dreer, President of Henry A. Dreer, Inc., for the property 716 Chestnut street, lot 22 feet 6 inches by 140 feet, recently purchased by him from Charles C. Harrison. The price paid for the property is not disclosed. It is assessed for the present year at $70,000, and was sold clear of encumbrances. Henry A. Dreer, Inc., have owned and occupied the adjoining property, 714 Chestnut street, lot of the same size, for many years. It is the purpose of the Dreer firm to enlarge its present store by taking in 716 Chestnut street. The sale is of particular interest as indicating not only the first movement of realty in the block between Seventh and Eighth streets on Chestnut for several years, but an intention on the part of the Dreer firm to maintain and enlarge the business in the location which it has occupied so long.

Extensive alterations are now under way, so that the two buildings will be connected in time for the spring trade. These two large buildings, together with their six-story warehouse at 710 South Washington Square, will be used entirely in handling their ever increasing business in seeds, bulbs and horticultural supplies; the plant end of the business being taken care of at their nurseries, Spring Grove, Riverview and Locust Farm.

This increase in space in which to handle their business will be of great advantage and the plans now under way will make the Dreer store one of the best equipped in the seed trade, giving ample facilities for taking care of the large number of customers who throng the store each day during the spring months.

Unfavorable Legislation.

The attitude of the present Secretary of Agriculture toward the free seed distribution, is one that must be hailed with pleasure by the seed trade in general. He is the first Secretary since the time of J. Sterling Morton, who has taken this attitude, and, by the way, the only one between him and Mr. Morton was Mr. Wilson. In talking with seedsmen, Mr. Wilson generally pretended to be opposed to the free distribution, but, nevertheless, under his fostering care, this graft grew from eleven millions to sixty-five millions of packets during his administration of the Agricultural Department, and had he remained another four years, the chances are that the grand total would have reached one hundred million packets. A considerable number of the employees of the Agricultural Department devote their time exclusively to this branch of department activities, and, of course, are always in favor, not only of maintaining the free distribution, but of increasing it. If this unjustifiable practice could be discontinued, a considerable number of both men and women, who are now feeding at Uncle Sam's crib, could be turned out to earn their living in lines that would be of some benefit to the general public.

Seeds Discriminated Against.

While discussing this matter, our attention was recently called to the seed laws, both state and national, that have been passed in the last few years. The men who legislate on this subject are, as a rule, absolutely ignorant of the matters they are considering, and the result of these laws in most cases is the creation of commissions to secure their enforcement. The men appointed are usually ignorant and inefficient. Under the parcel post law, seeds are about the only commodity barred. Animals of nearly all descriptions, fish and fowl—both dead and alive—may be sent by parcel post, but seeds, which are always securely packed and are as neat and clean a commodity as could be sent by post, are ruled out and must pay a higher rate of postage. If the aim of the law is to benefit the dwellers in the rural districts, there is nothing more important to them than the ability to secure their seeds from reliable houses in convenient form and at low rates of postage, for it must be borne in mind that whatever the postage rates are, the buyer of seeds ultimately has to pay them.

By the way, why is it that the National Department of Agriculture will examine so few samples of grass seeds for seed merchants each month, while for employees or farmers they will examine and report on any number?

Are Pea Prices Too High?

The contracting prices of the seed growers for the current year's crops show in many lines a marked reduction from those of the past few years. This is notably so in the matter of peas, but it is a question if prices are quite in line with present conditions. It must be borne in mind that the figures heretofore ruling have been the result of a succession of severe crop shortages when prices were abnormally high, seed stocks exceptionally valuable and short in supply, to such an extent that many buyers, both seedsmen and canners, were unable to cover their full requirements from year to year. At the present time, with the exception of a very limited number of varieties, there is a superabundance of peas. Nearly every seed grower is carrying surplusses of considerable magnitude, while the seed merchants themselves are overloaded. In the face of this situation, it would seem to have been the part of wisdom for the growers to have made their prices more in harmony with the existing conditions than to continue to keep prices at the present high level. The regular recognized

(Continued on page 4)

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS, 82 Dey St., NEW YORK
and ORANGE, CONN.

MICHELL'S NEW CROP FLOWER SEEDS

VERBENA SEED
Michell's Mammoth Fancy Strain.

	Tr. Pkt.	Oz.
Mammoth Fancy, Blue	$0.30	$1.25
" " Pink	.30	1.25
" " Scarlet	.30	1.25
" " Striped	.30	1.25
" " White	.30	1.25
" " Mixed	.30	1.00

SALVIA SEED

Michell's Scarlet Glow	$0.50	$3.50
Bonfire	.40	2.00
Splendens	.25	1.00
Zurich	.50	4.00

ASTER SEED
Queen of the Market

Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choice Mixed	.20	.65

ASPARAGUS PLUMOSUS NANUS
Northern Greenhouse Grown Seed.
500 Seed....$1.75 5,000 Seeds..$15.00
1,000 " .... 3.25 10,000 " ... 29.00
Special prices on larger quantities.

Send for Our Latest Wholesale Catalogue of Seeds, Bulbs, Plants and Florists' Supplies if you haven't received a copy.

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Wholesale Growers to the Trade of
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FLOWER SEEDS
Please Write Now for Our
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Write us for price on both globe and flat varieties. We are also quoting Onion Sets.
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Seedsmen
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California Seed Growers Association, Inc.
Growers For Wholesale Dealers
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Stocks Boston Flower Market

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We have all the colors. Trade packet.....60c.; oz., $1.00
In pure white. Trade packet.....75c.; oz., 5.00

SWEET PEAS—All the leading forcing varieties. ASTERS—The latest and newest novelties. All the standard and well tried sorts. LILY OF THE VALLEY—From our own cold-storage plant all the year round.

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We have arranged for **our very special strains of**

FLOWER SEEDS FOR FLORISTS

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LAWN GRASS SEED

WHOLESALE ONLY

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Commercial Sweet Pea Seed

of my original **Winter**, also **Summer**, Varieties, by the ounce or ton. 3,000 lbs. surplus of Nora Unwin, Gladys Unwin, Frank Dolby, Countess Spencer, Orange Spencer, King Edward Spencer, and some small lots of summer and winter Grandifloras

Ask for special low prices on 100 lb. lots.

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Fruit Tree Stock, Forest Trees, Hedge Plants.

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Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

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ASPARAGUS PLUMOSUS NANUS
Greenhouse grown—per 100 seeds.$ .50
" " " 1000 " . 4.00

ASTER
Crego, white per oz.....$ .75
" delicate pink " ..... .75
Also all other varieties.

BEGONIA
Gracilis Luminosa, per packet.....$ .25
Semperflorens Vernon, per oz..... 4.00

SALVIA
Splendens per oz.....$1.25
Bonfire " 2.00
Early Dwarf Zurich " 4.00

VINCA
Alba, pure white, per oz.....$ .50
Rosea " ..... .45
" Alba " ..... .50
Mixed " ..... .45

SPIRAEA

	100	1000
Japonica	$4.00	$35.00

LILIUM

	100	1000
L. Giganteum, 6-8	$3.50	$30.00
" " Multiflorum, 6-8	3.50	
" Longiflorum, 6-8	3.00	

LILY OF THE VALLEY

Prices on Application.

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Send a postal for your copy.

J. M. Thorburn & Co.

"The most reliable seeds"
53 Barclay St. (T22) New York, N. Y.

PANSY SEED

GREY'S PRIZE EXHIBITION MIXTURE.
This mixture represents the highest perfection of large flowering, new, high-colored sorts. **$1.00 Trade pkt. $12.00 ounce.**

GREY'S SPECIAL MIXTURE.
A grand mixture of the finest varieties, very striking and highly recommended. **50c. Trade pkt. $5.00 ounce.**

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32 South Market St., Boston, Mass.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

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SWEET PEA SEED

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HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

The Covington Floral Co., of Covington, Ky., have opened a branch store in Ludlow, Ky.

Kansas City, Mo.—The Twelfth Street Flower Shop has changed its name to the Golmis Floral Company.

New York, N. Y.—C. C. Trepel has leased a two-story building at 89th street and Broadway, for florist purposes.

STEAMER DEPARTURES

Allan.

Numidian, Boston-Glasgow...Jan. 22

American.

St. Louis, N. Y.-S'hampton...Jan. 23
Philadelphia, N.Y.-S'hampt'n.Jan. 30

Atlantic Transport.

Minnewaska, N. Y.-London...Jan. 24
Minnetonka, N. Y.-London....Jan. 31

Cunard.

Mauretania, N. Y.-Liverpool..Jan. 28
Alaunia, Boston-Liverpool....Jan. 29

French.

La Provence, N. Y.-Havre....Jan. 21
Niagara, N. Y.-Havre.....Jan. 24

Hamburg-American.

Fuerst Bismarck, Bos.-H'b'g.Jan. 22

Holland-America.

New Amsterd'm, N.Y.-R't'd'm.Jan. 20

Leyland.

Devonian, Boston-Liverpool...Jan. 24
Canadian, Boston-Liverpool...Jan. 31

North German Lloyd.

K'p'zessin Cecilie, N.Y.-B'm'n.Jan. 20
Geo. Washington, N.Y.-B'm'n.Jan. 31

Red Star.

Vaderland, N. Y.-Antwerp....Jan. 28

White Star.

Oceanic, N. Y.-Southampton..Jan. 21
Celtic, N. Y.-Mediterranean...Jan. 24
Cedric, N. Y.-Liverpool.....Jan. 29
Philadelphia, N. Y.-S'h'ton...Jan. 30
Canopic, Bos.-Mediterranean.Jan. 31

NEW FLOWER STORES.

Tampa, Fla.—C. M. Newman.

Lenox, Mass.—Michael O'Brien.

Sullivan, Ind.—H. J. W. Richmond.

Ludlow, Ky.—Covington Floral Company.

New Bedford, Mass.—E. H. Chamberlain.

Morristown, Pa.—Patrick J. Callahan, 117 W. Main St.

Upper Sandusky, O.—Fred Sammet, North Sandusky avenue.

Jamaica, N. Y.—Joseph H. Van Mater, 9 Flushing avenue.

Fresno, Cal.—Miss Kate Parsons, Holland Bldg., Fresno street.

Indianapolis, Ind.—Roepke Floral Company, East Washington street.

New York, N. Y.—Joseph G. Leikens, Madison avenue and 53d street.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
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Reference or cash must accompany all orders from unknown correspondents.
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Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

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Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
San Francisco, Cal.—The California Florist, 344-346 Geary St.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

BULB GROWING IN THE U. S.

Bulletin No. 28 of the U. S. D. of A., recording experiments in bulb growing at Bellingham, Washington, proves very conclusively that Dutch bulbs, such as Hyacinths and Tulips, can be grown in the United States as well if not better than in Holland.

It would be a very unpatriotic American or poorly informed horticulturist who ever thought anything else. It really did not need the Department of Agriculture to prove it.

There is climate and soil in the immense area of the United States suitable for all plants of the temperate and sub-tropical zones. To gain the skill and train the workman so that it can be done on a commercially profitable basis takes time, money and brains and constitutes the real problem.

That this problem will be solved in time there is little doubt, but at present at least American grown bulbs will not greatly affect the market.

National Nurseryman.

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CHICAGO NOTES.

H. C. Wullbrandt, proprietor of The Glove Greenhouses at 5200 Madison St., is in the south looking after his interests in a pecan orchard.

Local newspapers devoted large space to the report of the carnation exhibit given by the Chicago Florists' Club at the La Salle Hotel, Jan. 8.

Prospects are said to be bright for the success of the annual ball of the Cook Co. Florists' Association. Jan. 23. Tickets at one dollar per couple with no charge for extra ladies, can be secured from any of the wholesalers or from any members of the club.

The Poehlmann Bros. Co., placed the order for the wood work for thirteen new houses, with the Foley Greenhouse Co., Jan. 13. The houses are to be 27 by 250 feet with Garland gutters and Poehlmann truss, the latter the invention of their chief engineer E. G. Goodwin. The houses are to be erected by Wm. Mailander, and the rows of cement gutter posts are in place.

Two of the downtown retail florists report that they each sold over a thousand baskets filled with ruscus, statice, red berries, etc. Christmas week. The price was from $1.50 to $5.00 each and took the place of the dozen carnations or other flowers once so sought for as remembrances at the holidays. The retail stores still use many little baskets made up with prepared material or a mixture of the fresh flowers and prepared goods. A favorite combination just now is that of tulips lifted from pans and separated by dried statice.

The newly orgainzed Foley Greenhouse Co., located at 31st St., near Kedzie Ave., now has its plant ready for use. The place has a depth of 265 ft. with tracks running into the yards where cars can be loaded and unloaded inside the building. Spacious offices are located on the second floor. A feature of this location is its splendid natural light all through the building. A blue print room is convenient to the main room and there are possibilities for increasing to any size the upper floor by extensions over the machine rooms. Mr. Foley says the inquiries coming in indicate a good season ahead.

A serious accident happened to five of the six big boilers at Plant C. at Poehlmann Bros., Morton Grove, Jan. 12th. The boiler feed pump was not working and cold water was put in when the water in the boilers was low. The result was the springing of the flues out of the boiler heads, putting five boilers out of use and leaving but one set of pipes running around the outside to keep up heat, with an outside temperature of 4 degrees above zero. The accident was at 8 A. M., and Kroeschell was telphoned and truck loads of supplies and another of men were soon on the spot. The boilers were temporarily repaired by 4 P. M. and only the fact that it occurred on the one day of sunshine that we have had, saved the stock, for the temperature went to 36 degrees in the thirteen houses, each 27x750 ft.

Visitors—Thos. Brown, Robt. Rahaley and Albert Stahelin of Detroit, Mich.; Joseph Harmann, Coldwater, Mich.; Mr. Desmond, Minneapolis, Minn.; Jos. Hill, Richmond, Ind.; J. E. Jones and son Raymond of the Advance Co., Richmond, Ind.

PHILADELPHIA NOTES.

Alexander B. Scott, of Robert Scott & Son, Sharon Hill, left on the 13th inst. for a short vacation at Summerville, S. C.

Mr. and Mrs. Robert Craig sail the 19th inst., on the "Havana," for a brief trip to the Isle of Pines and other points in the West Indies. They are accompanied by Mr. and Mrs. Freeman (parents of Mrs. Robert Craig, Jr.).

We had a pleasant visit at this office the other day from Professor Fancourt, in charge of the Horticultural Department of the National Farm School. In renewing his subscription he said: "I like HORTICULTURE more and more. It gets better every week."

"Flowers from Snow to Snow" was the topic of a lecture delivered by J. Otto Thilow before the Garden and Orchard Society Friday evening in Presser Hall, 1714 Chestnut street. Among those present were Miss Jessie T. Morgan, principal of the Pennsylvania School of Horticulture for women, at Ambler, and a number of the students. Also a goodly sprinkling of prominent members of Philadelphia's 400 for twenty miles around. We call this good practical work for the advancement of horticulture. Is it any wonder the Florists' Club has elected Mr. Thilow its president three times running? We are all proud of him.

Visitors: Chas. Schoenhut, Buffalo, N. Y.; A. Graham, Warren, Pa.; Richard C. McGill, secretary McGill Seed Growers Co., San Francisco, Cal.; P. H. Neally, Suburban Life, New York City; A. N. Pierson, Cromwell, Conn.; P. L. Carbone, Boston, Mass.; H. Wilden, representing Warnaar & Co., Sassenheim, Holland.

WASHINGTON NOTES.

William F. Gude was unanimously elected president of the Washington Chamber of Commerce amid unprecedented acclaim, at the annual meeting of that organization held on Tuesday. Mr. Gude held this same position during the years 1909 and 1910 and it is said of him that never before or since has the chamber been so prosperous as during his administration. It has now a membership of about 800. Another victory for the florists.

In a report to Secretary Houston, of the Department of Agriculture, C. L. Marlatt, chairman of the federal plant quarantine board, gives the result of the first year of the board's work. Fourteen foreign countries, he states, have so far co-operated with the United States by establishing plant quarantine inspection with satisfactory certificates covering exportations here, Some plant shipments have contained injurious insect and furgous plant enemies in spite of their coming from countries where there was an inspection service. Out of 169 shipments from France and Japan, the gypsy moth, or some kindred pest, was detected in 129 shipments.

William F. Gude, of this city, Mr. and Mrs. Richard Vincent, Jr., of White Marsh, Md., and Mr. Henry Bester, of Hagerstown, Md., were last week the guests of the people of Frederick, Md. The occasion was the delivering of a lecture by Mr. Vincent in the large auditorium of Hood College in that city. A banquet was held in their honor at the City Hotel, at which were present city officials, the faculty of the college, florists from nearby towns and others, about forty in all. Every attention possible was accorded the guests and the local street car company placed at their disposal a special parlor-observation car which carried them to adjoining towns on a sight-seeing excursion.

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2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

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During Recess

BANQUET AT TARRYTOWN, N. Y.

Tuesday night, Jan. 13, was the fiercest of winter nights in many years, but it could not chill the ardor of the members of the Tarrytown Horticultural Society when their 15th, annual dinner was concerned. This took place at the Florence Hotel, beloved of Tarrytownians and their friends as an ideal hostelry for such joyous gatherings, and the good record of the past was well maintained in the size and character of the attendance, the excellence of the menu and the care-free eloquence of the speakers.

President John Elliot set an admirable example for terseness and brevity in his opening remarks which was well followed by those who followed. He introduced as toastmaster, Mr. R. A. Patterson who is in feature, a classic replica of President Wilson, only more so, and who filled the position with due geniality and wit. Frank R. Pierson, Wm. J. Stewart of Boston and Park Commissioner Tibbetts of White Plains, were severally called upon and responded acceptably. Mr. Tibbetts displaying the right park commissioner spirit when he spoke of the poetry, romance and history of the country between the Hudson and the Sound and the duty of the horticulturist to illuminate this lovely section with the beauty of horticultural art. Frank L. Young made a great speech, full of humor, declaring that he had never taken a course in a horticultural college, but had struggled with Greek roots, and defied his neighbors at the table to give the botanical name of the potato. Hon. Chas. P. McClellan, Mr. Coffey of the Daily Argus, J. Harrison Dick of New York and F. V. Millard were also among the speakers, and all were entertaining and instructive. Secretary Neubrand is a past-master at arranging for a good time.

Notes.

The Albany (N. Y.) Florists' Club had a dinner, following their meeting on Thursday evening, Jan. 8. Short addresses were made by the officers and trade representatives present.

An invitation is extended to all members, friends and fellows-florists, to attend the annual florists' social and hop which will be held at Kasting Co.'s Hall, Buffalo, on Jan. 29th. The committee in charge is working hard to make this one of the most pleasant gatherings of the season and a good time is assured all.

The annual banquet of the Southampton, N. Y., Horticultural Society was held at the Commercial Hotel, Thursday evening, Jan. 8, when the members and their wives enjoyed a pleasant social time. Entertainment was provided by a professional banjoist and monologist, and Schaus' orchestra furnished music. The tables were handsomely decorated.

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HINTS TO COMPILERS OF SCHEDULES.

Promoters of horticultural exhibitions will now be arranging their schedules. I have often thought how much better it would be if, instead of cups and medals, useful articles were offered for prizes. From my own experience of those responsible for the necessary polishing, etc., they become a useless annoyance, and are often put away out of sight. As for medals, they are neither use nor ornament. For instance: A provincial exhibitor takes a collection to London, at often great cost, and possibly obtains a bronze medal, which seldom afterwards will see the light of day In place of such useless articles, why not a silver table-centre, Rose-bowl, corner table, silver flower-vases, a tall vase for specimen blooms, sugar basin and cream-jug, tea and coffee service, and salver, with inscriptions? Such articles would be a pleasure for those responsible in the household instead of being a nuisance. I have heard ladies remark that flower show and other exhibition committees should have the assistance of ladies in the selection of useful prizes; then the household and posterity would look upon deserved honors with pleasure instead of the reverse.

—*A. C. in The Garden, London.*

R. M. Ward & Co., New York, are sending to the trade an ingenious wall order file, with a separate hook for each day in the week.

Personal

President-elect Wm. Duckham entertained his fellow officials of the New York Florists' Club at dinner on Saturday evening, January 10.

C. Albert Small of New York observed his birthday on Saturday, January 10, and congratulations were extended by many friends in the wholesale district.

Paul and Henry Dailledouze, the "Heavenly Twins," of Flatbush, N. Y., sailed on the S. S. Cleveland, Thursday, Jan. 15, on a trip to the Mediterranean and Egypt.

Having been appointed by the President and the appointment having been confirmed by the Senate, W. F. Kasting will at once assume the postmastership of Buffalo, N. Y., as soon as his bond is approved. The position carries a salary of $6,000 a year.

The Greek-American Florists' Association will hold their annual ball at Terrace Garden, New York, on Friday evening, Feb. 13. Tickets can be procured from Geo. Cotsonas, J. J. Fellouris, George Polykranas or the Boulevard Floral Co. Geo. Polykranas is chairman of the committee.

Boston visitors: Edward Reagan, Morristown, N. J.; Andrew Wilson, Springfield, N. J.; Mrs. Francis King, Alma, Mich.; H. C. Neubrand, Cromwell, Conn.

New York visitors: Benj. Hammond, Beacon, N. Y.; F. R. Pierson, Tarrytown, N. Y.; Robert Pyle, West Grove, Pa.; Eber Holmes, Montrose, Mass.; Wallace R. Pierson, Cromwell, Conn.; S. S. Pennock, Phila, Pa.; Walter Mott, Beacon, N. Y.; W. J. Stewart, Boston.

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Block Letters, $2.00 per 100.
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Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI January 12	CHICAGO January 12	BUFFALO January 12	PITTSBURG January 12
Am. Beauty, Special	to 60.00	35.00 to 40.00	40.00 to 50.00	30.00 to 40.00
" " Fancy and Extra	to 50.00	25.00 to 30.00	30.00 to 40.00	20.00 to 25.00
" " No. 1	to 30.00	20.00 to 25.00	20.00 to 25.00	6.00 to 12.50
Killarney, Extra	to 15.00	10.00 to 12.00	15.00 to 20.00	8.00 to 12.00
" Ordinary	to 6.00	4.00 to 8.00	4.00 to 6.00	4.00 to 6.00
Richmond, Hillingdon, Extra	to 15.00	10.00 to 12.00	8.00 to 10.00	10.00 to 15.00
" " Ordinary	to 8.00	4.00 to 8.00	6.00 to 8.00	4.00 to 8.00
Maryland, Ward, Taft, Sunburst, Ex.	to 15.00	8.00 to 10.00	10.00 to 12.00	10.00 to 15.00
" " " Ordinary	to 8.00	6.00 to 8.00	5.00 to 8.00	6.00 to 8.00
Russell, Shawyer	to	..... to 20.00	..... to	..... to .....
Carnations, Fancy	to 4.00	3.00 to 4.00	..... to 3.00	3.00 to 4.00
" Ordinary	to	2.00 to	2.00 to 2.50	1.50 to 2.00
Cattleyas	to 50.00	35.00 to 50.00	40.00 to 50.00	50.00 to 75.00
Cypripediums	to 25.00	..... to	12.00 to 15.00	..... to 15.00
Lilies, Longiflorum	to 12.00	8.00 to 12.00	10.00 to 12.00	..... to 12.00
Callas	to 12.50	8.00 to 10.00	10.00 to 12.00	..... to 12.00
Lily of the Valley	to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	to 3.00	.... to 3.00	2.00 to 3.00	..... to 3.00
Freesias	to 4.00	..... to	3.00 to 4.00	3.00 to 4.00
Violets	to .75	1.00 to 1.50	.75 to 1.00	.50 to 1.00
Daises	to 1.00	..... to	1.00 to 1.50	..... to 3.00
Sweet Peas	to 1.50	..... to 1.50	.50 to 1.00	.50 to 1.50
Gardenias	to 25.00	25.00 to 30.00	..... to	20.00 to 25.00
Adiantum	to 1.00	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	to 12.50	12.00 to 15.00	..... to 15.00	12.50 to 18.00
Asparagus Plumosus, Strings 100 ..	to 50.00	40.00 to 50.00	20.00 to 50.00	30.00 to 50.00
" " & Spren. 100 bchs. ..	to 50.00	25.00 to 50.00	25.00 to 50.00	30.00 to 50.00

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Flower Market Reports

BOSTON The flower shipping business has gone through a hard experience in the past few days. Boxes incoming from growers or outgoing to out-of-town buyers have been received by the express companies, only as subject to delay, and much loss has been sustained by the many delays at stations and on trains, as well as by freezing, many lots coming to market last Monday and Tuesday frozen beyond redemption. The demand is not very active on anything. Roses are really scarce, but this occasions no privation as there are so many other things in sufficient quantity for every need. Carnations are abundant, the whites being in larger demand than the colored ones. In bulb material the supply is large and now includes excellent daffodils, which bring four and five dollars per hundred. Fine mignonette is now plentiful, selling from two to six dollars. Cattleyas are over-stocked. Violets in very light demand.

BUFFALO There has not been much change in market conditions the past week. Business is very much on the quiet side and enough stock to meet all demands. The rose supply is normal, though select and fancy stock are more plentiful than the shorts. Carnations have come on quite plentiful, but too many of the ordinary quality and more white are seen than colored. Lilies move quite satisfactorily. Beauties are in normal supply, but demand lacking. Tulips, daffodils and freesia are now added to the list and so far have had good sales. There is a nice supply of all miscellaneous material. A revival is looked for soon as wedding decorations and other social gaieties will be at their height.

CHICAGO Business is comparatively quiet. The reaction from the holiday season is not yet over and while some wholesalers are inclined to feel depressed the greater number regard business as about normal for Jan., with the exception of the loss caused by the extreme shortage of roses. The scarcity of roses reported in last week's issue, is still more marked this week and all good stock brings the top price. On the other hand, American Beauties are coming in quite freely though practically all are in long lengths and the demand is good. There are plenty of carnations and only strictly fancy will bring quoted figures while the great bulk of good stock sells lower. There are more weak stems seen than usual in carnations in mid-winter, owing to the warm December. Sweet peas are again on the counters and the supply is fair in quantity and quality. There is also a steady supply of lily of the valley and sufficient demand to use it to advantage. Tulips are appearing in larger quantity each day and sell readily. Lilies are in fair supply and all kinds of green can be had in any amount.

CINCINNATI Market conditions are fair for the supply is fully adequate in nearly all lines. The demand while good is not as large or active as it might be and prices as a result are beginning to slip downward. The supply of most of the roses is sufficient to take care of all demands upon it. American Beauties are still off crop as far as this market is concerned. Carnations are coming in strong and the larger part of the offerings are of excellent quality. Buyers are beginning to have a thing or two to say about the prices again. These have dropped a little as far as local business is concerned since the last writing. There are plenty of lilies and all other bulb stock. Violets are selling well but the price has dropped. Orchids and lily of valley sell fairly well. Good sweet peas are in demand.

PHILADELPHIA Last week was better than expected, considering that we are now going through the usual after-the-holidays dullness. The shorter grades of roses seem to be the best sellers, although they are not quite up to the standard as to quality. The pink roses sold better than the whites and the reds best of all, as they were scarcer—most of them being in a cut-out state after the Christmas week. Carnations are moving out fairly at moderate prices, the pink varieties rather better than the white. The quality of course is par excellence. Orchids are a little too plentiful at present, especially cattleyas, and this condition is reflected in the prices. Some of the cattleyas are under grade as to quality and that is especially true of Percivaliana. There are some nice spray orchids and very good Dendrobium formosum. Cypripediums are nearly over. Gardenias are in over-supply at present, quality very good. Violets are selling well, especially the singles, Lady Campbell being the leader. Lily of the valley fairly active. Quality shows quite some improvement. Minor items are selling well, especially daisies, forget-me-nots and mignonette.

Continued on page 91

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Our growers will be strong for the next few weeks with a splendid crop of the choicest pink and white Killarneys, all lengths, particularly specials.

SPECIALS, -	$12.00	FANCY,	$10.00
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Roses	BOSTON January 15			ST. LOUIS January 12			PHILA. January 12		
Am. Beauty, Special	40.00	to	50.00	35.00	to	50.00	50.00	to	60.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	35.00	to	40.00
" " No. 1	10.00	to	15.00	10.00	to	12.50	15.00	to	25.00
Killarney, Extra	8.00	to	12.00	6.00	to	8.00	15.00	to	20.00
" Ordinary	5.00	to	6.00	3.00	to	5.00	5.00	to	8.00
Richmond, Hillingdon, Extra	8.00	to	12.00	6.00	to	10.00	15.00	to	20.00
" " Ordinary	5.00	to	6.00	4.00	to	5.00	8.00	to	12.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	12.00	6.00	to	8.00	8.00	to	12.00
" " " " Ordinary	4.00	to	6.00	3.00	to	4.00	6.00	to	8.00
Russell, Shawyer	15.00	to	25.00	.....	to	.....	.....	to	25.00
Carnations, Fancy	2.00	to	3.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	1.50	to	2.00	1.00	to	2.00	2.50	to	3.00
Cattleyas	25.00	to	50.00	40.00	to	50.00	35.00	to	60.00
Cypripediums	.....	to	15.00	.....	to	.....	15.00	to	18.00
Lilies, Longiflorum	6.00	to	8.00	10.00	to	12.50	12.00	to	15.00
Callas	.....	to	12.00	10.00	to	12.50	12.00	to	15.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	2.00	to	4.00	2.00	to	3.00
Freesias	2.00	to	3.00	.....	to	.....	.....	to	.....
Violets	.50	to	1.00	.75	to	1.00	.75	to	1.00
Daisies	.....	to	2.00	.....	to	.....	2.00	to	3.00
Sweet Peas	.75	to	1.00	.75	to	1.00	.50	to	1.50
Gardenias	25.00	to	35.00	.....	to	.....	8.00	to	20.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	12.50	to	15.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	25.00	15.00	to	25.00	25.00	to	35.00

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ROSES AND CARNATIONS	Last Half of Week ending Jan. 10 1914	First Half of Week beginning Jan. 12 1914
American Beauty, Special	25.00 to 50.00	25.00 to 50.00
" " Fancy and Extra	15.00 to 25.00	15.00 to 25.00
" " No. 1	10.00 to 15.00	10.00 to 15.00
Killarney, Extra	8.00 to 10.00	8.00 to 10.00
" Ordinary	3.00 to 8.00	3.00 to 8.00
Richmond, Hillingdon, Extra	6.00 to 12.00	6.00 to 12.00
" " Ordinary	3.00 to 6.00	3.00 to 6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 12.00
" " " Ordinary	4.00 to 8.00	3.00 to 8.00
Russell, Shawyer	12.00 to 20.00	12.00 to 20.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.50 to 2.00	1.50 to 2.00

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41 West 28th Street, NEW YORK

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 90)

NEW YORK

While it is true that demand has been very light ever since the first of January yet the production is such that no serious accumulation is in sight and values have not suffered any great setback as has sometimes happened at this particular period. There is one exception, however, and it is one which would be least expected, viz. cattleyas. On all sides there is more than a surfeit of them and quantities are lost because of inability to get buyers for them. Only a few of the most select blooms realize quoted prices. There is every evidence that it will not be long before there will be an unwieldy surplus of bulb flowers. Good tulips and daffodils also freesia are now added to the variety on sale at all the wholesale places. Mignonette has begun to come in heavily and the quality is very fine. The first Acacia pubescens was seen this week. It came from W. H. Siebrecht. Japan lilies—rubrum, magnificum, etc.—are among the best sellers this season. They are forced in enormous quantities by A. S. Burns, Jr. They bring from $4.00 for short stemmed blooms to $10.00 for flowers on long stalks.

ST. LOUIS

This market has been highly satisfactory. There is no great abundance of cut stock, but just about enough to go around. Shipping trade fell off somewhat since the holidays. Prices have been high on some things and most reasonable on others. Violets are as they have been all season, scarce and of poor quality. Carnations are fine. Roses are becoming better in color and are in good demand. Miscellaneous stock selling satisfactorily.

CLUB AND SOCIETY NOTES.

The attendance at the Cincinnati Florists' Society meeting on Monday night was very slim. The evening was the coldest of the present winter and kept the growing contingent at or near their greenhouses. J. A. Peterson & Sons, exhibited specimens of Melior and a seedling Begonia of a type similar to the Melior, but as yet unnamed.

The Chicago Florists' Club held a very successful meeting at the La Salle Hotel; Jan. 8 and gave a public exhibition of over thirty new varieties of carnations from all parts of the country. All the old officers had been re-elected and P. J. Foley took charge of the installation ceremonies. Reports were made by the officers and heads of committees. Attendance was 65.

The Houston (Tex.) Florists' Club, at its dinner on Monday evening, Jan. 5, voted to designate the week beginning Feb. 15 as "Planting Week", and to ask the citizens of Houston to co-operate. Among the propositions made was the founding of a stock company for the purpose of selling flowers at wholesale. Such a company would enable flowers to be grown on a large scale it is said.

The 1915 Entertainment Committee are out to induce the Board of Supervisors of Los Angeles, Cal., to provide in the tax levies for 1914 and 1915 for the raising between $250,000 and $300,000 to carry out floral and entertainment plans alredy made for exposition year. This sum will be supplemented, it is expected by liberal contributions from Los Angeles and her citizens, both city and country.

The distribution of 1,000,000 rose slips and vast quantity of seeds is contemplated by the Entertainment committee as its initial venture in the line of making the city and county florally attractive for 1915.

The meeting of the Pittsburgh Florists' and Gardeners' Club on Jan. 6th was held in the big English room at the Fort Pitt Hotel, this being necessary to accommodate the members and their friends who were anxious to hear the talk of Geo. B. Parker on the Wild Flowers of Allegheny Country, and see the colored lantern slides. The pictures were of the highest class and the audience was entertained and instructed.

The officers for 1913 were renominated for 1914 namely: President, Neil McCallum; vice-president, E. C. Reineman; treasurer, T. P. Langhans; secretary, H. P. Joslin; assistant secretary, W. A. Clarke.

Carnation Matchless was shown by the Cottage Gardens Co., Queens, N. Y., and received a first-class certificate. This grand white drew much enthusiastic praise from our expert, Fred Burki. Gorgeous was exhibited by H. M. Weiss & Sons and was also given a first-class certificate.

A. N. Pierson, Cromwell, Ct., sent the new rose, Hadley, and a first-class certificate was awarded. J. A. Peterson, of Cincinnati, was present and showed his new begonia Melior, which was thought to be an improvement over Glory of Cincinnati, and Carl Becherer, gardener at Dixmont Hospital, Dixmont, Pa., showed seedling carnations, for which he was awarded a certificate of merit.

H. P. JOSLIN, Sec'y

Galva, Ill.—George Pierce, of Kewanee, has purchased the greenhouse business of A. G. Larson.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 10 1914	First Half of Week beginning Jan. 12 1914
Cattleyas	20.00 to 40.00	10.00 to 40.00
Cypripediums	12.00 to 15.00	12.00 to 15.00
Lilies, Longiflorum	8.00 to 10.00	8.00 to 10.00
Callas	10.00 to 12.00	12.00 to 15.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	2.00 to 3.00	2.00 to 3.00
Violets	.50 to 1.00	.50 to 1.00
Daises	.. .. to 2.00	..... to 2.00
Sweet Peas (per 100 bunches)	6.00 to 8.00	6.00 to 8.00
Gardenias	15.00 to 35.00	15.00 to 35.00
Adiantum	.50 to .75	.50 to .75
Smilax	8.00 to 10.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	15.00 to 25.00	15.00 to 35.00
" " & Spren (100 bunches)	10.00 to 15.00	10.00 to 20.00

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For page see List of Advertisers.

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Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

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Nicotine Mfg. Co., St. Louis, Mo.
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ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
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ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
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Sprengeri for sale, 3½ in. pots, good stock plants, $4.00 per 100. Also lot from bench. Can cut crop at once. Must be lifted to make room. Make me an offer for lot. E. G. BLANEY, Swampscott, Mass.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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BEGONIAS

A. M. Davenport, Watertown, Mass.
New Winter Blooming Begonia Florence Davenport.
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BOILERS

Kroeschell Bros. Co., Chicago.
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"King Ideal" Boiler.
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Hitchings & Co., New York City.

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Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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J. M. Thorburn & Co., New York City.
Freesia and Lilium Harrisii Bulbs.
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Horseshoe Brand Lily Bulbs.

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John Lewis Childs, Flowerfield, L. I., N. Y.
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A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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O. V. Zangen, Hoboken, N. J.
Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANES

Wm. Elliott & Sons, New York City.
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CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

Conard & Jones Co., West Grove, Pa.
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Patten & Co., Tewksbury, Mass.
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Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Special Bargains.
Harlowarden Greenhouses, Greenport, N. Y.
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COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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A. M. Davenport, Watertown, Mass.
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Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZEEH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

200,000 Giant Flowering Cyclamen Seedlings in six separate colors, our own grown strain. Seed only taken of Numberblossoms. From seed flats, August-sown, $2.50 per 100; $20.00 per 1000. Once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all packages. CHRIST. WINTERICH, Cyclamen Specialist, Defiance, O.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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John Lewis Childs, Flowerfield, N. Y.
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Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

America, planting stock, $2.75 per 1000. Taconic, large bright pink, $5.00 per 1000. Bulblets, 50c. and $1.00 per quart, respectively. HOMER F. CHASE, Haverhill Road, Lawrence, Mass.

America, Extra Selected Bulbs, $15.00 per 1000. America, First Size Bulbs, $12.00 per 1000. America, Blooming Bulbs, $7.00 per 1000. America, Planting Bulbs, $2.50 per 1000. America, Bulblets, $2.50 per Peck; $10.00 per Bushel. BROOKLAND GARDENS, Woburn, Mass.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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Florists' Hail Assn. of America.
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Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

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Bobbink & Atkins, Rutherford, N. J.
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Parshelsky Bros., Brooklyn, N. Y.
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Lord & Burnham Co., New York City.
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Aphicide Powder.
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R. P. Palethorpe Co., Inc., Clarksville,
Tenn.
Nicoticide, the Insecticide.
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Jerusalem Cherries, pot grown, 4-in., fine plants, full of red berries, $15.00 per 100. Cash. F. SOKOL, Worcester, Mass.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Lemon Oil Co., Baltimore, Md.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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Horse Shoe Brand.

Fottler, Fiske, Rawson Co., Boston, Mass

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NIKOTEEN
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PAPER POTS AND DIRT BANDS
Square Paper Pots, 3-in., 5000, $3.90; 4-in., 5000, $7.25. Dirt Bands, 3-in., 5000, $3.00; 4-in., 5000, $4.50. Price list and samples free. ROCHELLE & SONS, Chester, New Jersey.

PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PETUNIAS
H. A. Dreer, Philadelphia, Pa.
Double Petunias.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., Chicago.
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PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POTASH
German Kali Works, Inc., New York City.

POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail I. N. KRAMER & SONS, Cedar Rapids, Iowa.

POWER AND SPRAY PUMPS
C. J. Jager Co., Boston and Providence.
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New Rose Killarney Brilliant.
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A. N. Pierson, Inc., Cromwell, Conn.
New Roses.
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Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
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California Seed Growers' Association, San Jose, Cal.
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T. J. Grey Co., Boston, Mass.
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Albert Dickinson Co., Minneapolis-Chicago.
Lawn Grass.
The Right Seeds in the Right Place.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Asparagus Plumosus Nanus. Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
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SNAPDRAGONS

New Winter-Flowering.
H. Huebner, Groton, Mass.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
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STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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Reed & Keller, New York City.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

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NEW CROP FLOWER SEEDS.

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WHOLESALE PRICE LIST DAHLIAS AND GLADIOLI.

Northboro Dahlia and Gladiolus Gardens, J. L. Moore, Prop., Northboro, Mass.
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Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

In writing to Advertisers kindly mention Horticulture

SEED TRADE.

(Continued from page 95.)

growers are inviting a vast deal of more or less irresponsible competition which, nevertheless, is a factor to be reckoned with and very annoying if not embarrassing to them. This is a matter for the growers themselves to determine, but we still believe that they will eventually take our view of the matter.

Beans and Sweet Corn.

One item, which is not in surplus, is beans. Two or three of the green-pod varieties are easily obtainable at moderate prices, but excepting these, beans have not been in as short supply nor as high in price for a number of years. As might be expected, the present high prices of spot beans has resulted in a sharp advance in the price of futures and this advance, by the way, seems to us wholly justified. For a number of years beans have been selling entirely out of the relative proportion of values with peas, and the figures now ruling on contract are not a cent higher than they should be, according to the views expressed by the great majority, if not all of the leading growers.

Sweet corn seems to be in fairly good supply, although prices are firm at somewhat of an advance over those of a year ago, this situation being about in line with what we predicted some months ago. There has been no material change in conditions affecting the general line of small seeds since we last discussed this matter, and contracting prices for the 1914 crops are generally lower than those of the last three or four years.

California Conditions.

Information from California as to conditions prevailing in that state, indicate that they are very favorable. An abundant supply of rain has fallen; indeed it may be said that the only fears expressed now are that there may be too much moisture. Barring this possibility, it looks as if there might be an excellent crop of sweet peas next season, which will be welcomed by the trade in general.

By the way, we have been informed that some experiments in the growing of sweet peas in Idaho and Montana during the past two or three seasons have been rather disappointing. Whether these experiments will be continued another year, we have not learned.

Notes.

Boone, Ia.—F. A. Reichenbach has sold his retail seed business and will retire from the trade.

W. W. Jarred was elected vice-president of the Cumberland Seed Company, Nashville, Tenn., last week.

Clarence M. Shacklett, salesman for the Cumberland Seed Co., Nashville, Tenn., and Miss Gladys B. Sims, were married last week.

We are advised that mail order trade is opening up very satisfactorily and mail order houses in general are anticipating a good year's business.

CATALOGUES RECEIVED.

Henry A. Dreer, Philadelphia, Pa.—Dreer's Garden Book, 76th Annual Edition, 1914. Bound in cream tinted covers, with lettering embossed in gold and green, four full page plates in colors and profusely adorned with half-tone illustrations, this catalogue will find a cordial welcome from the seed and plant buying public. It comprises 256 pages besides covers and a number of inserts and they are closely filled with the good things in seeds, bulbs plants, aquatics, shrubs, implements and sundries, including a good list of approved novelties.

The Joy Book, Horseshoe Bulbology for 1914.—This is the title under which R. M. Ward & Co., New York, send out their wholesale price list of bulbs this season. A neat catalogue nicely illustrated. Quaint epigrams and unique philosophy interspersed here and there make this characteristic Wardian publication entertaining as well as useful in a business way.

Arthur T. Boddington, New York.—1914 Winter and Spring Wholesale Catalogue of Florists' Seeds and Bulbs. "The Seal of Quality" is the central external adornment of this very complete list of everything needed by the florist for forcing or outside planting. Some particularly interesting new and improved things are offered in the novelty pages.

Charles H. Totty, Madison, N. J.—1914 Catalogue of Chrysanthemums, Carnations and Roses for the Trade. Contains splendid portraits of the sterling flower novelties and standard varieties of recent introduction. A list that every grower will need. A colored plate of new chrysanthemums forms the title page.

Wm. Elliott & Sons, New York.—General Seed Catalogue for 1914. Covers very rich in color effect showing formal landscape and garden views of much merit. Contents comprehensive and illustrations excellent.

John Lewis Childs, Flowerfield, N. Y.—Trade Price List of Choice Gladioli and other Summer Flowering Bulbs and Plants. A grand collection especially of gladioli and lilies.

C. Petrick, Ghent, Belgium.—Wholesale Trade List for Spring, 1914. Azaleas, palms, camellias, etc. R. M. Ward & Co. are the American representatives of this establishment.

R. Vincent, Jr., & Sons Co., White Marsh, Md.—Wholesale Trade List of Vegetable, Greenhouse and Bedding Plants. All useful stock and prices interesting to wholesale buyers.

CANES

6 to 8 ft. - - $7.00 M.

10 to 12 ft. - 13.00 "

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

Elmer D. Smith, Adrian, Mich.—Select List of Chrysanthemums for 1914. Some fine novelties are listed in all the various classes.

HELP WANTED

WANTED—A young man as general plant grower. A good opening. Address "T. R.," care HORTICULTURE.

WANTED—A good Rose grower, for a place of 50,000 ft. of glass, near Boston. Must be able to take charge in absence of foreman. Address "W. R. M.," care of HORTICULTURE.

GARDENER—For greenhouse, cucumbers, truck gardening. Permanent position. Address PAUL WASHBURN, 10 Kenmore St., Boston.

SITUATIONS WANTED

SITUATION WANTED—By experienced commercial rose grower. Also understands carnations, bouvardias, Easter plants, etc. Massachusetts position preferred. Address "W. A.," care HORTICULTURE.

WANTED—Young Englishman (age 25) requires situation as under gardener in private establishment. Eleven years' experience under glass. Grapes, peaches, melons, carnations, malmaisons, stove and greenhouse plants; excellent references. Apply by letter to BOX 605, Moosic, Pa.

FOR SALE

FOR SALE—Fresh from factory, now; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

8 Grape Vines, 6 Currant Bushes

All best 3 year old stock. If planted now or early spring will fruit next summer. Should ground be frozen we tell you how to protect and keep them dormant ready for early spring planting. Orders accepted now and forwarded at any future time if preferred. Grapes are Worden, Niagara, Iona, Concord, the best early mid-season and late varieties. Large cherry currants. Write for list of our **$1 Friend Makers**, consisting of all kinds of Fruit Trees, Berries and Roses. **$1**

Cultivate Horse-Radish Garden, Field or Farm. Nothing as profitable. We tell you all about it. **The Landscape Garden Co., Newburgh, N. Y.**

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

APHICIDE POWDER

(FORMERLY THE FUMIGATING KIND)

KILLS ALL APHIS

$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.

WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU

If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.

THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.

CLARKSVILLE, TENN.

Davidge's Special Phosphorus

$2.00 per 100 lbs.

A safe fertilizer for Flowers and Plants

HUDSON CARBON CO., BALLSTON SPA, N.Y.

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW



POWER AND SPRAY PUMPS

OF ALL KINDS

A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.

C. J. JAGER COMPANY

13-15 Custom House Street Boston 33 Canal Street Providence, R. I

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:

"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:

"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—

"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass, writes:—

"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart $3.00 Per Gallon

(Special prices on large quantities).

For Sale by Seedsmen.

We Manufacture
APHINE, FUNGINE, SCALINE, and NIKOTIANA.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - - BEVERLY, MASS.

When writing to advertisers kindly mention HORTICULTURE.

Obituary

Mrs. Charles Armitage.

Mrs. Armitage, widow of the late Charles Armitage, and mother of F. W. Armitage of Hitchings & Co., died at Elizabeth, N. J., on Saturday, January 10, aged 65 years.

E. D. Kaulback.

Edwin D. Kaulback, widely known in the florist trade as a large grower of Easter lilies, died at his home in Malden, Mass., on Friday morning, Jan. 9, after a short illness with pneumonia. He was sixty years old and during over forty years he has been engaged in the florist business in Malden, conducting a retail store, as well as extensive greenhouses. He was also a very large real estate owner in Malden. The funeral was held on Sunday, his four brothers serving as pallbearers, and the floral tokens from friends in the trade and others were numerous and beautiful. He leaves a widow and one son, Fred R., who it is understood will continue the business.

GREENHOUSES BUILDING OR CONTEMPLATED.

Grand Rapids, Mich.—Eli Cross, two houses.

Lessburg, O.—P. O. Mumma, one house.

Garrettsford, Pa.—James Verner, addition.

Coatesville, Pa.—W. P. Worth, range of houses.

Fairfield, Ia.—E. H. Montgomery, one house.

Dighton, Mass.—Frank Rogers, Elm St., one house.

Athens, Ga.—State College of Agriculture, one house.

Morton Grove, Ill.—Poehlmann Bros. Company, additions.

Wenatchee, Wash.—Milot-Mills Company, addition 20 x 100.

Cliftondale, Mass.—Jas R. and Roy A. Hatch, house 37x200.

Watkins, N. Y.—Willard H. Grant, one Lord & Burnham house.

Exeter, N. H.—McAlpin Bros., Lord & Burnham house, 65 x 600 feet.

Martin's Ferry, W. Va.—Arthur Dickson, Scotch Ridge, one house.

Spring Valley, N. Y.—A. S. Burns, Jr., range of Lord & Burnham houses.

Grand Forks, N. D.—University of North Dakota, two houses, each 28 x 150.

Union Grove, Wis.—Meredith Flower & Vegetable Co., range of houses in the spring.

St. Paul, Minn.—Range of conservatories at Como Park. The conservatory will be near the center of the park, about 1,500 feet west of the present structure. The ground plan calls for a tower 100 feet in diameter with show houses 100 feet long and 200 feet wide on either side. Hot beds will be at the rear. The completed structure will cost about $75,000 and will be one of the finest park greenhouses in the west.

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Makers of King Iron Frame Greenhouses

FIRES.

St. Albans, Vt.—The greenhouse of ex-governor E. C. Smith on Congress street, was considerably damaged by fire last week.

Lowell, Mass.—The dwelling house, barn and part of the greenhouses of J. J. McManmon were burned on Tuesday night, Jan. 13.

Cincinnati—The greenhouses of Albert McCullough were destroyed by fire Sunday night, January 11th. Fortunately the loss was covered by insurance.

Ridgewood, N. Y.—A disastrous fire in buildings on Knickerbocker avenue, on the morning of January 6, did considerable damage to the store of "Nick", the florist, at No. 391.

West Islip, N. Y.—A heavy loss was sustained by Alex D. C. Arnold on January 8, through the total destruction of the big boiler house connected with his greenhouses and the consequent injury to plants by the cold. The fire was discovered about 1.30 A. M., and although the firemen from the neighboring villages, including Babylon, were called, nothing could be done, as the greenhouses and boiler house were remote from a water supply. It is not known how the fire started. A workman had made the round of the boilers a short time before and found everything all right.

NEW CORPORATIONS.

Birmingham, Ala.—Gorman-Gammill Seed and Dairy Supply Co. Capital stock $10,000.

Clarksville, Tenn.—Metcalfe Greenhouse Company, capital stock $3,000; incorporators, Roy Elliott, Percy Richardson, R. C. Bertsch, T. L. Metcalfe and Dancey Fort.

Wheeling, W. Va. — The Nursery Farms Company, capital stock, $5,000. Incorporators, Baird Mitchell, John E. Stevenson, Juliet Smith, Minnie Knoke and Thomas C. Stevenson.

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1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
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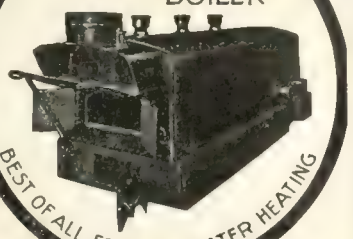
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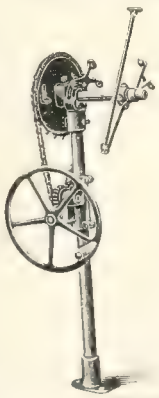
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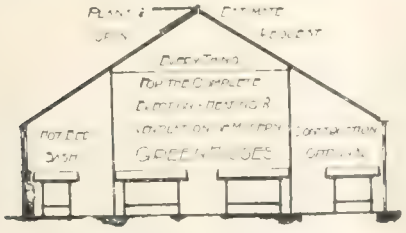
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We then started on the wood-work which is very simple, as everything is cut and fitted.

I like these forty foot houses. There are no center posts to bother. We have three walks, one in the center, and one on each side, which leaves us two double beds with a pipe in the center of each to rest our work-plank on.

It pleased me the other day to see the ice and snow slide off those houses, while the old fashioned wooden-framed houses were darkened all day long.

In closing, I wish to thank you for your courtesy and square dealing."

T. B. Pengelly

Lord and Burnham Company

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HORTICULTURE

Vol. XIX JANUARY 24, 1914 No. 4



VIEW IN THE AQUATIC GARDENS

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This charming variety is by all odds the most brilliant and finest scarlet geranium ever put on the market. The blooms are gigantic and the number of flower heads on the individual plant is remarkable. It is wonderfully vigorous and hardy. Starts to flower early in May and continues uninterruptedly until cut down by frost. Even through dry hot weather it retains its brilliancy of color and great flowering qualities. It is of medium height, very compact with lustrous heavy foliage. The flowers are semi-double, while the individual florets are frequently 2 inches in diameter. We have already booked orders for some 30,000 plants. The stock is limited and we predict a heavy demand for "Helen Michell."

Read what two of the Greatest American Geranium Growers say about "Helen Michell"

Philadelphia, June 15th, 1912.

Gentlemen

Relative to the new Geranium "Helen Michell," which was shown to us a few days ago, would say that we consider this variety a GREAT IMPROVEMENT over Alphonse Ricard. The flower is borne on a long, stiff stem, is MUCH LARGER than the Ricard variety, and the color is superb. It appeared to us to be a very VIGOROUS GROWER and UNUSUALLY FREE.. We have known of this variety for the past two years and think it will be one of the grandest bedders in commerce.

Yours truly,

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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Young Cyclamen

Cyclamen do not succeed in widely fluctuating temperatures. A night reading of 54 to 56 degrees is a happy medium, with a 10 degree rise in the day time with sunheat. When the seedlings are large enough to handle they should be potted. Be sure to always leave the upper part of the little corm above the ground. Use fresh loam and leaf mold with enough sand to make it quite porous. Do not try to force a cyclamen by raising the temperature. Give ventilation whenever possible and keep them clear of fly and thrips by spraying with nicotine solution and light fumigation. Keep them well up to glass and as spring approaches give them an average night temperature of about 52 to 55 degrees. Do not shade cyclamen until the first of March.

Carnations

Carnations carrying a heavy crop of buds should have some plant food. There is nothing better than mulches and liquid manure. Rotted cow manure makes by far the best mulching. If the plants are pretty well established and in condition to stand a little feeding then you want it not too well rotted. If it is just rotted enough to be free from danger of souring, it will furnish a good deal of nourishment as well as protect the surface from baking and drying out. Before you put on these mulches, a light sprinkling of wood ashes will help to stiffen the stems. Air-slaked lime also will have this effect, but we like the ashes better, as they do not seem so caustic. To make liquid manure use either cow or sheep manure. A bushel of cow, or about one-fourth that amount of sheep manure will do.

Propagating Chrysanthemums

With the advent of January the man who is growing for exhibitions begins to turn his thought to propagating for the coming season. Place the stock plants in a cool, airy house, where the cuttings can make a hard, firm growth. Many commercial growers simply throw their stock under the benches and leave them there until it is time to begin propagating. Such a method is folly, pure and simple. The cuttings are weak and the plants, because they have been growing in insufficient light, have lost most of their vitality. The commercial grower does not want to propagate his stock so soon for average cut flower growing but he will find it an advantage to root the plants and set them out on a bench in a cool house. These can be topped latter on.

Swainsona

Cuttings of Swainsona galegifolia root in ten or twelve days, with bottom heat. Any side shoot from three to four inches long, taken from growing, thrifty plants by pulling it sideways out of the axil formed by leaf and main stem, is a good cutting and needs no further trimming. These cuttings must not be allowed to wilt neither before nor after they go into the sand. If regularly attended to as to watering, potting and repotting, they will make good 6-inch flowering plants by Decoration Day, suitable for cemetery planting. They are, however, of greater value for indoor culture, and when planted out in quantity on a sunny bench, or into a suitable bed will be a perfect sheet of countless, pea-shaped snow-white flowers from June until away into winter. Every spray of bloom in its airy, deep-green setting of fern-like foliage, brings ready money, if rightly handled by its grower. If marketed immediately, or shortly after being cut, the flowers will wilt too quickly and hardly ever recover. But if picked when nearly all the blooms are fully open, and placed in water and kept in a cool, but light place for twenty-four hours, the flowers may then be safely used for any purpose.

Pyrethrums

Now is a good time to start a batch of these very valuable plants. Cuttings placed in a moderately warm propagating bed will root readily now. When they are rooted pot up into 2½-inch pots, using a rich compost. Keep shifting until they are in 4 or 5-inch pots. These will make excellent stock for the Memorial Day trade. Do not keep them too warm. From 45 to 48 degrees at night will do.

Soil Sterilization

Mr. Farrell:

Dear Sir Apropos of your remarks on the use of sterilized soil for seed sowing (page 5), I should like you to give me some advice as to a simple yet practical method of so treating soil on a small scale, not necessarily requiring any large initial outlay in the erection of elaborate plant for same, but a handy workable way which would be likely to prove of some practical value on a place of limited area. J. D. W.

Glen Cove, N. Y.

In answer to J. D. W. I would say that soil sterilizers are simple and easy to make and can be made any size to suit. All that is necessary is a box any length or width that you may like, but only a foot deep; when made deeper the steam does not go through it so good. On the bottom of this box you should have a series of inch perforated pipes, running the full length. If they are placed about a foot apart they will do the sterilization perfect. To connect these pipes with the steam use a short piece of inch pipe, with a long thread on each end, to go through the center of the box and fasten it to the bottom by two lock nuts. The end inside the box can now be connected to the perforated pipes and the end outside can be connected with the steam pipe by either another inch pipe or hose. To use this box sterilizer place the soil to the depth of about 8 inches, leaving it as light as possible, cover with some boards or a piece of canvas and turn on steam, which will vary from 180 to 212 degrees in the soil. With high pressure boilers you can sterilize the soil in 2 hours, but with low pressure boilers it would take anywhere from 5 to 8 hours. Where you do not use steam it would pay to hire a portable boiler for the purpose.

Mr. Farrell's next notes will be on the following: Care of Violets; Christmas Solanums; Cosmos; Gardenias; Orchids; Stevias; Lobelias.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Cold Snap

Notwithstanding all that is written about sufficient wrapping paper in the packing, many growers failed to have their boxes frost proof in the recent cold snap, and as a result many hundred dollars' worth of flowers were frozen. Many of these came from up-to-date places where one would never think of looking for frozen flowers. Experience has taught us that it pays to have a roll of heavy wrapping paper always on hand, and this with plenty of newspaper put around the shipping boxes on the outside will do wonders in keeping the frost out. The corners of the boxes should be well papered, as usually they are left with the paper about half an inch away from the end, and it does not take a very big crevice for Jack Frost to enter and then the flowers are done for.

Fires

Looking over the trade papers one will see accounts of a great many fires with thousands of dollars loss to growers. Some are covered partly by insurance but the loss of the season's crop is far worse than the loss of buildings. In many places the cellar seems to be an ideal place to deposit all kinds of rubbish, old paper boxes and many other useless things. These naturally dry out as the fires are forced in cold weather and make nice kindlings to start a fire. Keep wood and stuff away from the boiler room. Have the floor above the boilers of steel and concrete, if at all possible, and if this cannot be, at least see that there is good protection of the floor above the boilers. Then it is well to invest a few dollars in fire extinguishers and keep them handy. An extra line of pipe all through the place which connects to fire hose only, a hydrant here and there, will be a very profitable investment. The cost is small compared to what the loss may be if no provision for fire protection is made. Have a reel of fire hose that is never disturbed in every potting shed, two or three in the larger ones, and let it stay there, so that anyone can find it there even though it was pitch dark. Never let the employees remove this hose. It is well to have a fire bell, too, that can be rung to summon help on any size place. Where possible have telephone connections at least to the manager's house. All this seems a lot of fuss but when a fire starts it will all be paid for.

Fresh Water for Vases

Just because it is winter and cold is no reason why all the cut flower vases should not be refilled, at least every other day. During warm weather it is necessary to refill every day, and it is not a bad plan to carry it out even in cold weather. Flowers, to keep fresh must have fresh water. Stagnant water will kill the foliage along the bottom of stems, and the cut flowers are very poor specimens after the foliage is gone. Keep the jars and vases clean and full of fresh water—clean enough to drink.

Watering Cuttings in Sand

As soon as a batch of cuttings is put into sand they should be watered well and then if drainage is good and sand not too fine they will take a watering every day for a while. In watering try to have the water a little warm—at least within 10 degrees of the temperature maintained in sand. On many places where an elevated tank is used the water will be ice cold, the tank being full of ice, and this is no water to use in a propagating house. Even the plants suffer to some extent when watered with this ice water, and the cuttings receive a good chill to say the very least, as it will take quite a while for the sand to warm up again. A good plan is to have the water pipe for the propagators run along the heating pipes and as it is used the heat will take the chill off at least.

Watering in the Houses

With the wind blowing a gale and the mercury down to zero the benches will dry out very rapidly, and, as is often the case—very unevenly. Watch the soil very carefully, and be sure to give sufficient amount of water, where all the mulch has disappeared. A little coarse sod mixed with a little rough manure may be applied to hold the water in place, or better still a light mulch of good, well decayed cow manure can be use. The former, however, will no doubt be much more convenient to apply, and liquid manure can be used to furnish all the necessary plant food. Bonemeal, of course, should be added to the sod mulch, or a little of it scattered before using the manure. This seems so natural that we sometimes forget to write it.

Fumigating

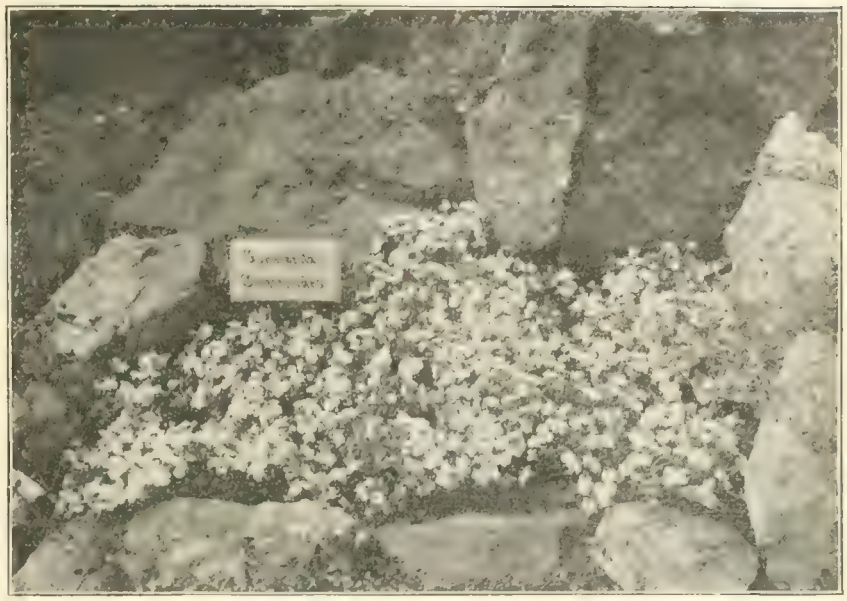
Do not neglect this important item in the growing of roses. Keep the plants clean. With the coming of the warmer and longer days the fly will multiply much more rapidly than ever. So will spiders spread if given half a chance. If you would have clean houses for the coming spring and summer, keep after the bugs now. A mild fumigating or spraying every now and then will be all that is necessary and thus all insects will be kept out. A heavy spray or fumigation is not so very good for the plants, and is liable to do harm. Try to arrange to have it done just before syringing; it is more effective. Never have the plants too dry while fumigating, for a damp atmosphere is essential to the success of the operation, and also to the safety of the plants.

Tying

With the rush of propagation do not neglect tying in the least, or there may be a chance for regret. A bench of Beauties kept well tied will produce far more flowers than a bench neglected. Then, too, you can see many things on the plants while tying which would escape unnoticed, unless you make regular trips among the houses to inspect them. In doing so go over the whole house thoroughly—benches, soil, plants and all. You will be surprised at what you will find here and there.

Gypsophila

Few flowering garden plants are better known than the "Babies' Breath" or Gypsophila. The main reason for its popularity is its wide latitude of usefulness in a cut state. The graceful panicles of the annual Gypsophila elegans, as well as the perennial Gypsophila paniculata and its double form, floro pleno, seem indispensable for midsummer table decorations. A few sprays mixed in bouquets, centerpieces or vases take away any stiffness in the form of some common garden flowers, ameliorate and soften colors and, in a general way, help to improve matters perceptibly. To be without a continuous supply of babies' breath during the sweet pea season, for florists of northern summer resorts, reflects very badly on judgment. In the eyes of most of his customers the craftsman minus the always desired article is a complete failure. The easy way of growing the annual kinds in proper rotation leaves no excuse whatever. The perennial species mentioned, during the period of their being in bloom, serve the same purpose. The comparatively new Gypsophila paniculata flore pleno may be cut, dried and preserved for winter use similar to helichrysums, acrocliniums, rhodanthes, xeranthemums and other immortelles. Less known and by no means duly appreciated we find the two dwarf-growing kinds, Gypsophila cerastioides and Gypsophila repens. As shown by our illustrations, both are ideal rock-garden plants of charming appearance. The flowers of the European native, Gypsophila cerastioides being of a clear white with finely penciled brown veins, never fail to draw attention, while the light graceful masses of tiny blossoms of Gypsophila repens evoke the admiration of all. For dry wall planting both prove a material hardy and highly effective. Gypsophilas are mostly raised from seeds planted as early as possible in Spring. The annual varieties should be sown on the garden space where we want them to flower. The perennial species may be started in cold frames or in seed pans under glass at moderate heat and sufficient ventilation on bright days. Gypsophila cerastioides can also be freely propagated by divisions. A light soil and open sunny exposure is the rule for all species mentioned. Perennials need leaf-covering for winter protection.



GYPSOPHILA CERASTIOIDES



GYPSOPHILA REPENS

Richard Rothe
Riverton, N. J.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

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"Can you beat it?"

One of the fine arts of the flower business, it seems to us, is the wonderful precision with which the rose growers today time their holiday crop. The Killarney breed of roses lends itself admirably to this control, however. Cold or warm, sunny or cloudy, whatever the weather may choose to be preceding the Christmas holidays, the rose man faces the market with a full crop when the great day draws nigh and ten days thereafter the houses are about as clean as a mown field. A very striking contrast to old-time conditions, surely. The advantage of this clever proficiency is seen in the tone of the market reports for the past two weeks—roses holding their steady market value everywhere—carnations too many and their market value impaired in consequence. It will be a fine thing for the carnation and the cattleya, too, when they can be brought into such tractable submission as seems to be the case with the forcing rose of today under modern management.

Danger Signals

A. Rosenthal, editor of The Modern View, in editorial comment on the recent campaign in St. Louis against the use of flowers, says:

"Not alone in the sad and tearful hours, but also in the glad and joyful celebrations, is the futility of floral folly and extravagance equally and obviously useless. There also should be thought of those who need medical aid, money, bread, coal, clothes and education. The beautiful rose is more glorious transformed into a health reviving meal to starving stomachs."

Between the Jewish women of St. Louis who would thus abolish the use of flowers for any and all occasions, sad or festive, the "Junior Prom" committee at Harvard who on the ground of economy forbid the sending of flowers by any Harvard man to his lady guests at the dance this year, the clergymen who will not allow flowers at funerals where they officiate and, lastly, the underbred fashion leaders who give preference to artificial and preserved material where fresh flowers should be used, the way of the florist is certainly beset with its full share of trouble and solicitude. Fortunate, it is, indeed, for the florist that the influence of these fanatical meddlers can never be anything more than local and transitory. The love for flowers and the sentiments to which they appeal are too strongly rooted in the human heart for it to be otherwise. It would be the height of recklessness, however, not to take heed of these danger signals and try to minimize their influence by eliminating as far as possible any methods or practices which afford grounds for reasonable criticism of the florists' business. If there is any way in which this beautiful industry can be elevated, its ways refined and objectionable features reduced, it is time for those who make it their avocation to get busy, as individuals and through every organized means, so that the hold of the florist upon the affection of the people shall grow and not diminish.

Warning

We must again warn our readers that HORTICULTURE has no traveling representatives or subscription agents. At this time of the year, especially, we have complaints from subscribers who have been induced to pay some imposter the price of one or more years' subscription for HORTICULTURE. Letters received indicate that one of these crooks is operating in some of the Long Island, N. Y., towns. Watch out for him.

PRIVATE AND COMMERCIAL AFFILIATION.

Mr. Editor:

I have read with great interest in your issue of January 10 the article, "Private versus Commercial Florists," by F. E. Palmer—a most timely topic and very nicely expounded. I fully agree with Mr. Palmer regarding the mutual workings of the S. A. F. for all branches of horticulture. The foundations of our national society are laid on a very large basis, as you, Mr. Editor, proved by quoting a portion of the laws governing membership. That is surely plain enough for everyone to understand if he wishes to do so. But, Mr. Editor, I take exception to your view of the value of discussing this matter just now. The question is, what has the so-called private gardener to benefit by being a member of the S. A. F., and is he wanted in that society? So I say, anything which will educate or enlighten our brother from the private branch of our profession to the usefulness and broadness of our national society is never amiss. Our friend, the private gardener, not being in the maelstrom of professional business, has no need to worry over the price of coal. Tariff and price of plants and cut flowers don't keep him from his sleep, his life is not near so strenuous as his commercial brother's is, and so he has not felt the need of co-operation as we commercial florists have, and has stayed in the background mostly, apparently satisfied with his lot. While his commercial brother has been pushing himself and horticulture upward and forward at all times, he has at the same time pulled his private brother up with him. You smile? I can prove it to you. Who has given you all the fine forcing roses, carnations and others so that you can have the finest of flowers for your employer in winter? Through whose enterprise have the greenhouse building firms been able to put lots of money and brains into their business, so that they can build better houses for you? I think fully nine-tenths of all articles writen in our horticultural papers are from the pens of commercial men. Who has formed and organized all the florist clubs and most horticulture societies? The commercial man is the live wire in all of it, and it's only natural that he should be; he needs it most. While the individual efforts of the commercial florist has been great, he could not have attained the success we now are proud of if he had not had the help and co-operation of the national society and the florist clubs. The interchange of ideas in discussions has stimulated the brains to greater activity, and the exhibitions held by the national society or local clubs have boosted our business as well as our standard of quality.

In no country in the world has the commercial grower of plants and flowers been so generous with his knowledge and experience. He has and still is giving it free to all who need it. It is true that our national society is still small in numbers; it's true that thousands of men are still taking the fruits of others' labors without giving their mite; it's true that horticulture is still behind other professions in united strength and effort, but it is also true that the day is breaking when all our scattered interests will be welded together in one great national society. To do this, we need the private florist just as much as any one. We cannot longer do without you, Mr. Private Florist. Do your part now. Prove to all that you can be just as generous and just as good a fellow in doing things as the commercial florist. Recognition will follow quickly, as is shown in your Boston club. A private florist is now president of the New York Florists' Club in recognition of work well done. It is what we do that counts, not what we are. When the National Society comes to Boston this summer, how will the Boston club stand towards affiliation? It will be the main issue to come before the meeting. Will you be united or will class distinction and prejudice turn you as a body from the right way? I hope not. The Boston club has been able to unite the commercial and the private men as in no other club in the country; that is an achievement to be proud of. Now crown it by standing solid for affiliation next August.

A. FARENWALD.

Roslyn, Pa.

BEGONIA MELIOR.



This is a new winter-flowering variety; parentage, Lonsdale's light pink sport from Gloire de Lorraine × Socotrana. A strong, robust grower, about 12 or 18 in. to 2 ft. in height; foliage nearly round, of a dark green color; flowers borne in great profusion: male flower 1¾ in. to 2 in. across, 4-petaled; female flower very rare, 5-petaled. Color a delicate shade of soft satiny pink, a shade lighter than Glory of Cincinnati; flowers from November till March; in prime condition during December and January. It is easy to propagate, and succeeds best in equal parts of loam and leaf mould, and some sand added. Temperature while in bloom 56° to 58° at night. This new begonia is a marked improvement over Glory of Cincinnati, and will be disseminated in July, 1914.

"A MAN'S A MAN FOR A' THAT."

For many years I have had an increasingly friendly feeling for the Editor of HORTICULTURE. I never could define the cause of it. The mystery is solved now, however. I see by a recent issue of the Florist's Exchange that W. J. S. was born on March 17th. Of course that makes him "one of us," and surely, being a Bostonian, he is a "Home Ruler." No wonder he displays the tartan of his family so proudly on his bosom. A Stewart! Born in Boston!! and on St. Patrick's Day!!! What more can be added? May his years be many.

PATRICK FLANAGAN.

New Rochelle, N. Y.

Where was St. Patrick born? Ed.

CLUBS AND SOCIETIES

LANCASTER COUNTY (PA.) FLORISTS' CLUB.

On January 13th, a party of twenty-three from Lancaster visited Strasburg, visiting the establishments of Amos Rohrer and Chas. B. Herr. Mr. Rohrer has added two very fine modern houses. He had quite a batch of schizanthus in bloom and the quality of flowers would almost bring them into the orchid class. At Mr. Herr's, the show place of Lancaster County, every thing was in the pink of perfection from the office cat to the bench of Enchantress Supreme. Mr. Herr grows every thing well but if there is any difference in his ability to get the best out of any one variety it is with Beacon. He has it the best of any one in this section and better than the writer ever saw it any where in the United States.

Coming back to Lancaster we met the rest of the crowd at the Brenneman Building and sat down to a real banquet 6.30 P. M.

The out-of-town visitors were F. M. Read of The Whilden Pottery; C. U. Ligget and E. J. Fancourt of the S. S. Penock-Meehan Co.; E. I. Hoehl of S. S. Skidelsky & Co., and D. T. Connor, representing Lord & Burnham Co., all of Philadelphia; T. E. Wohlert of Narberth; A. S. Brandt and Aug. Schaffer of York; T. J. Nolan of The King Construction Co., and last but not least Prof. E. I. Wilde of State College. Prof. Wilde gave us a very instructive talk, dealing principally on Carnations. He also made a strong plea for the support of the florists in getting legislation to appropriate more money for floriculture at State College as they now have some 38 term students and a number of short termers whom they are trying to instruct in floriculture with one greenhouse 30 by 100.

He was followed by F. M. Read, D. T. Connor, Aug. Schaffer, A. S. Brandt, E. I. Hoehl, T. E. Wohlert, ex-president A. M. Herr and the newly-elected president B. F. Barr. Harry Schroyer acted as toastmaster and Mr. Linkey and Mr. Goldbach had a German sangerfest which was Greek to most of the visitors but highly enjoyed by those who understood it.

At the business meeting B. F. Barr was elected president, Lemon Landis secretary; H. K. Rohrer treasurer and Elmer Weaver vice-president. After the business meeting sports were indulged in up to midnight. On the exhibition table Matchless was shown in its usual fine form, a vase of Gloria was much admired for its color and, last but not least, was a bunch of Philadelphia from Detroit that opened up as good as if they had come in from a local grower. It was its first appearance here and made a very good impression. A few members who do not have regular firemen were kept away from the banquet by the first real winter we have had in this section, the thermometer going four below zero during the night and hanging at ten above during the day.

Feb. 19, will be observed as Carnation Night. Ye men especially interested in carnations, from far and near, take notice and remember you are always welcome in Lancaster, Pa.

ALBERT M. HERR.

GARDENERS' AND FLORISTS' CLUB OF RHODE ISLAND.

The annual meeting of this club, at Providence on Monday evening, Jan. 19, was made a very pleasant social event by the serving of refreshments and exchange of views for "the good of the club." There was an excellent attendance of members and W. J. Stewart of Boston was present as a guest.

Retiring President Eugene A. Appleton opened the meeting. Alex. Macrae was chosen temporary secretary and a vote of regret and sympathy with Secretary Chappell in his recent accident was unanimously passed. A



CORNELIUS G. HARTSTRA
President-elect Gardeners' and Florists' Club of Rhode Island

letter of greeting from A. M. Rennie, Gary, Ind., was read and plans for improving the section of the city adjoining the old canal, by W. T. Hatch, were displayed and explained by Robert Johnston. The president-elect, Cornelius G. Hartstra, then took the gavel and Robert Johnston, on behalf of the members, presented the retiring president with a handsome umbrella, suitably engraved. A hopeful address was made by the president, indicating his desire to make the year 1914 a most successful one for the club. He called upon W. J. Stewart, who responded with a spirited appeal for loyalty to the best horticultural interests of city, state and New England and asked for a large attendance at the Boston convention next summer. James Hockey followed with words of enthusiasm regarding the outlook and urging an immediate grasping of the great opportunities for improvement in exhibition management. Mr. Powers told stories as the chowder was handed around and toasts were drank to the prosperity of the club and to the absent secretary.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

According to custom, the January meeting of the Gardeners' and Florists' Club was "Ladies' Night." On this occasion it is part of the ceremony of installation of the new officers to stand them up in a row, let the ladies see how fine they look, and, with a couple of hundred admiring feminine eyes gazing upon him, what florist or gardener wouldn't put on his best smile and make all kinds of promises to be good during the year? Altogether, "Ladies' Night" is a great night for everybody, and on this particular occasion it surpassed the record.

Horticultural Hall was filled to the limit with an aggregation of beauty and wisdom, youth and maturity, harmony and good fellowship such as any organization might well be proud of, and all lines of "private" and "commercial" and "allied trades" were obliterated. Business was very brief. The secretary's notes showed an average attendance of 162 at the meetings of the past year; 74 new members had been added, 4 members had died. The treasurer's report showed a balance of $1657.63 on hand. President Kennedy made a brief but very optimistic address, outlining the great work for the coming season—the club's part in receiving and entertaining the S. A. F. convention visitors. He appointed Peter Miller, James Wheeler and Henry Penn as members of the general preliminary convention committee to represent the club, together with himself and S. A. F. Vice-President Welch ex-officio. He appointed the standing exhibition and entertainment committees with William Sim and Wm. J. Patterson as chairmen, respectively. Twelve new members were enrolled.

Then came the musical program and for an hour the audience was treated to the best entertainment they ever had. Mr. James Singer, Miss Katherine Singer, Miss Margaret Alexander, Miss Marion Kay, Mr. Joseph Lorraine, Miss Ruth Dyer and Master Sawyer were the artists and there was not a weak spot in the feast of vocal and instrumental music, character impersonations and recitations which they presented. After that refreshments were served lavishly and then followed dancing, which lasted until the midnight hour.

STATE FLORISTS' ASSOCIATION OF INDIANA.

The annual meeting of the Indiana State Florists was held on Tuesday, January 13, at the Hotel Severin, Indianapolis. It was a well attended and interesting session. President W. W. Coles in his address referred to the approaching meeting and exhibition of the Chrysanthemum Society of America, which is scheduled for Indianapolis next November, and urged prompt activity in preparation therefor so that a creditable showing may be assured from the local growers. He spoke optimistically of the Associa-

tion's present condition and outlook for the future.

Officers for the ensuing year were elected as follows:

President—Walter W. Coles, of Kokomo.
First Vice-president—W. J. Vesey, Jr., Fort Wayne.
Second Vice-president—John Hartje, Indianapolis.
Secretary—O. E. Steinkamp Indianapolis.
Treasurer—H. L. Wiegand, Indianapolis

The exhibits included carnations St. Nicholas and Shasta by Baur & Steinkamp; White Enchantress by Hartje & Elder; Gloriosa and White Wonder by W. J. & M. S. Vesey; Beacon, White Enchantress and Mrs. Ward and rose Ophelia by E. G. Hill Co.; Washington and Rose-Pink Enchantress by Stuart & Haugh; Yellow Prince and Yellowstone by F. Dorner & Sons Co. All the foregoing were given honorable mention. Quite a number of new carnations were on exhibition and were scored as follows by the committee:

From R. Witterstaetter, President Valentine, 88 points; No. 1021E, 75. F. Dorner & Sons Co., Champion, 80; Sensation (provisional), 85; Good Cheer, 83; No. 271, 81; seedling, 75. Hartje & Elder, No. 23, 76. E. G. Hill Co., No. 3, 79. S. S. Skidelsky & Co., Philadelphia, 77.

In the evening there was a banquet at which some entertaining talks were given and a pleasant social time enjoyed.

AMERICAN CARNATION SOCIETY.

The secretary will start for Cleveland, Monday evening, January 26. All mail matter which will not reach Indianapolis by Monday morning should be addressed in care of Hotel Staettler, Cleveland, Ohio. The early entries have been heavier than usual, indicating a large showing of the divine flower. This, in connection with the retail display, should be of especial interest to the members.

If you have paid your dues, bring your receipt with you, to avoid delay in securing banquet ticket, badges, etc. Wear your A. C. S. button.

Sessions will be held Wednesday evening, Thursday morning and afternoon. Banquet Thursday evening.

A. F. J. Baur, Sec.

Chicago to Cleveland.

The Chicago party for the annual convention of the American Carnation Society, to be held at Cleveland, January 28-29, will travel on the Lake Shore & Michigan Southern railroad, leaving La Salle street station at 11:30 P. M., January 27, due at Cleveland the next morning at 7:35. The fare one way is $7.75. Berths, lower $2, upper $1.60. Berths can be reserved through C. K. Thompson, at the Lake Shore & Michigan Southern railroad ticket office, corner Clark and Monroe streets (telephone, Randolph 5300), or through J. B. Deamud, chairman transportation committee, 160 North Wabash avenue (telephone Central 3155).

J. B. Deamud,
Chairman Transportation Committee,
Chicago Florists' Club.

Boston to Cleveland.

The party from Boston for the Carnation Meeting will leave South Station at 11.15 P. M., Monday, January 26. Due in Cleveland 4.35 P. M. Tuesday. Parties wishing to join should notify William Nicholson, Framingham, Mass.

New York to Cleveland.

The New York party for the American Carnation Society s meeting at Cleveland will leave the New York Central Station on the 6.45 P. M. train on Tuesday, January 27th, arriving at Cleveland Wednesday morning at 7.35.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held on the 20th inst., the newly-elected president, Samuel T. Bodine, in the chair. After the routine business was disposed of the audience—which was one of the largest for some time—listened to a very interesting address on Hardy Perennials by Richard Rothe of the Dreer staff of experts. The speaker also gave a splendid series of stereopticon views illustrating his subject. Mr. Rothe showed himself thoroughly familiar with all phases of gardening and discussed the fine points with fine enthusiasm. We hope to find room for the address in full in an early issue.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

President Theodore Wirth has appointed E. T. Mische, Portland, Ore., as state vice-president for that state, and Daniel MacRorie state vice-president for the northern part of California.

John Young, Sec.

CLUB AND SOCIETY NOTES.

The Hardy Ornamental Plant Growers' Association will hold its annual meeting at Boston next August. C. J. Molloy, of Rochester, N. Y., is secretary.

The annual dinner of the Morris Country Gardeners and Florists' Society, was held at Piper's Hotel, Morristown, N. J., on Tuesday evening, Jan. 20.

The Retail Florists' Association of St. Louis met on January 19 at Hotel Bern. Reports were presented by the committees on "crepe pullers" and "union florists."

The Connecticut Pomological Society and the Connecticut Vegetable Growers' Association will hold a horticultural convention at Foot Guard Hall, Hartford, on Feb. 3 and 4.

The Lady Florists' Home Circle of St. Louis met on Wednesday afternoon at Mrs. F. C. Weber's. The attendance was good and all had a jolly time. Mrs. F. C. Weber, Jr., will entertain the ladies at next month's meeting.

The annual spring show of the Pennsylvania Horticultural Society has been fixed for March 25, 26 and 27. Premium lists can be procured from David Rust, secretary, Horticultural Hall, Broad and Locust streets, Philadelphia.

The first regular exhibition of the Massachusetts Horticultural Society for 1914 will be held on Saturday and Sunday, January 31 and February 1. Lorraine begonias, primulas, orchids, carnations, bulbous stock, fruits and vegetables are liberally provided for in the prize schedule.

The regular meeting of the Cook Co. Florists' Association was held Jan. 15th. The nomination of officers resulted as follows: President, N. P. Miller; vice-president, Alex. Henderson; secretary, A. T. Pyfer; treasurer, John Zech; sergeant-at-arms, M. Fink and Otto Goerisch; trustees, A. Zech, P. Pearson, J. L. Raske, P. Olsem, J. Novak, R. Schmidt, E. Peacock and F. Otterbacher.

At the meeting of the Nassau Horticultural Society on Wednesday afternoon, Jan. 14, at Glen Cove, N. Y., it was decided to hold the annual dinner at the Oriental Hall, Glen Cove, in February, date not yet decided. Mr. Beers, of the A. N. Pierson Co., Cromwell, Conn., addressed the meeting as did also Mr. Collins, representing Carter's Tested Seeds, Inc., Boston. Mr. Collins offered a special prize for competition at one of the future shows. Awards were made to Percy Chubb and James McCarthy for carnations. Exhibits for next meeting will be gardenias, freesias and Primula malacoides.

Harry Jones Cor. Sec.

The regular meeting of the Oyster Bay (N. Y.) Horticultural Society was held on Jan. 16th. The chief interest of the evening was a very instructive paper by Alfred Walker on vegetable growing, etc. James Duthie secured the prize for carnations and Joseph Robinson that for sweet peas. Frank Petroccia received honorable mention for some fine plants of Primula malacoides. Frank Petroccia also received the gold medal for the most meritorious exhibits at the 1913 meetings. The medal was given by Joseph Robinson. It was decided to hold future meetings on the fourth Wednesday of the month. John Ingram will lecture on orchids at the next meeting and the exhibits will be narcissus, cyclamen and chicory.

The date of the annual dinner has been changed to February 12.

SMITH MEMORIAL PLANS GET RECOGNITION IN CONGRESS.

The Smith Memorial plans gained considerable headway when, on January 12, Congressman George S. Graham, of Philadelphia, Pa., introduced into the House of Representatives a bill (H. R. No. 11401 appropriating $50,000 for the purpose of erecting a monument to perpetuate the memory of William R. Smith, late superintendent of the Botanic Garden.

Now that the seed has been sown in the ground it is up to all who are interested in this movement and every florist, and every florists' organization in the country should get on the job and send a few words of encouragement to Mr. Graham and tell their representatives in both of the Congressional branches that they want this bill enacted into law. In this respect due credit must be given to William F. Gude, through whose efforts this bill was drawn up.

The new wholesale cut flower store of B. A. Snyder & Co., 278 Devonshire street, Boston, is roomy and exceptionally well fitted for the business. This will undoubtedly take its place permanently as one of Boston's leading wholesale houses.

WASHINGTON NOTES.

While in town last week visiting friends, and looking after personal business, William F. Kasting annexed the title of "Hon." and incidentally the position of postmaster of his home city. The Hon. "Billy" left Washington with a face wreathed in smiles and his commission as postmaster with the signature of the President thereon, tightly clutched in his right hand. His many friends in Washington are indeed glad to hear of this honor conferred on a fellow-florist and their congratulations and best wishes are with him.

It looks as though there would be something in the way of a contest for the presidency of the Florists' Club of Washington as there are several factions each with its particular nominee who are beginning to wake up, take notice and do a little electioneering to put some life into the next meeting when the names will be submitted. There is quite a lot of fine presidential timber this year. There is a man on F street, one on Connecticut avenue, to say nothing of the present incumbent, either of whom would fit the chair nicely. The next meeting will take place on February 3 and it is expected that the exhibit given at the last meeting will be duplicated. There were a few empty seats at the last meeting but it is expected that the club will have to provide a few more at the next one.

The florists are particularly interested at this time in a bill which has just been introduced into the House of Representatives by Congressman Avis which provides penalties for those who seek to mulct others through the medium of worthless checks. A fine of not to exceed $100, imprisonment not to exceed 90 days, or both, will be assessed against those who shall be found guilty of a misdemeanor through the giving of a check or draft under $20, while checks or drafts amounting to more than that sum, if unaccepted by the bank against whom it is drawn, makes the author thereof guilty of a felony and subject to a fine of not more than $1,000, imprisonment for not more than two years, or both, unless restitution is made within 20 days after the giving of notice, verbal or written, of the protesting of the check or draft.

Visitors: Fred Michell, Jr., Phila.; Mr. Cohen, representing Wertheimer Bros., New York; D. T. Connor, representing Lord & Burnham Co.

FIRES.

Springfield, Mass.—The Oakes' greenhouses in Bush street, owned by Mrs. Katie Cartter, was damaged by fire on the night of Friday, January 16, to the extent of $4 000 to $5,000. Mrs. Cartter carried no insurance.

New Haven, Conn.—Three greenhouses of Charles Munro's range on Townsend avenue were burned and the contents ruined by fire on the evening of January 12. The fire is believed to have started from an overheated furnace. The loss is placed at $4,000. The houses were insured.

Lord & Burnham Co., have just completed at Irvington, N. Y., the largest green house factory and the best equipped foundry in this country.



KILLARNEY BRILLIANT

The best Rose we have ever introduced. If your order has not been placed

ORDER NOW

We have a splendid lot of Own Root and Grafted plants that will be ready to ship the last of February.

Own Root, $30.00 per 100; $250.00 per 1000
Grafted, 35.00 per 100; 300.00 per 1000
Plants from 2 1-2 inch pots

Address all orders to

ROBERT SCOTT & SON
SHARON HILL, - - DELAWARE CO., PA.



Improved Golden Chadwick

(Pollworth)

The Chadwick family of Chrysanthemums are the highest type of the commercial varieties, and any sport of Chadwick that is an improvement will be welcomed. This new variety has its origin in the West. We have taken part of the stock and will distribute the variety the coming season. It is described as identical with the parent in all respects except form and color of the bloom. It is a perfectly formed flower and a deeper golden yellow in color.

It is a variety that will be found all that the name implies. It means better late mums, and you need it.

Our Catalog for the Price.

Improved Golden Chadwick

A. N. PIERSON, Inc., Cromwell, Conn.

WANTED

155 3-3½ inch Cut-leaf Maples

ACER SACCHARINUM WIERI

Trees must have well-developed, symmetrical tops, straight stems and an extra fine root system.

Address: Board of Park Commissioners
Minneapolis, Minn.

Jan. 20, 1914.

Editor Horticulture:

Dear Sir: Enclosed please find my check for one dollar, as a renewal to my subscription for HORTICULTURE, the lively, up-to-date, weekly visitor.

New York. T.

Ask any successful grower from whence he receives his best

Chrysanthemum Novelties

ADRIAN or SMITH will be the reply

You need Our 1914 Novelties because they will be the best sellers next year.

You have our Catalogue, or we will be pleased to mail you one.

Elmer D. Smith & Co.
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MATCHLESS

Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless**, the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

At the Cleveland Show, Matchless was awarded First Prize for best 100 white, also Sweepstake for best vase in the 100 class—21 vases in all being shown.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS
COTTAGE GARDENS CO., Inc.
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THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI
AND
BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

SEND FOR PRICES

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Gale Ave. and Madison St.
RIVER FOREST, - ILL.

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Imported and Potted
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Julius Roehrs Co.
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You Cannot Possibly Go Wrong
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PHILADELPHIA
Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000
2500 at $95 5000 at $90

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BEST PALMS

All Varieties. All Sizes.
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Nice strong plants from 2 1-2-in. pots, $6.00 per 100; $55.00 per 1000
AZALEAS, CYCLAMEN, LILACS
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Small Ferns for Dishes
GERANIUMS, AZALEAS, ETC.
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Our Novelties for 1914 are ready for immediate delivery on such varieties as Meudon, Jas. Fraser, Mrs. R. H. Boggs, Mrs. Paul Moore, Daily Mail and Mrs. Ernest Wild at $2.00 plant; $20.00 per dozen. Chieftain, $5.00 per dozen.

We had over twenty acres of 'Mums growing outdoors last year in order to guarantee our stock being propagated only from plants that had not been fed or forced in any way.

Send for our catalogue of over four hundred and fifty varieties, including the Gold Medal Singles; the Caprice Family, which we introduced last year: the Early Flowering varieties which are becoming the rage and all other Standard varieties.

CHARLES H. TOTTY, Madison, N. J.

New Carnation, "Pink Supreme"

It has not the size or length of stem of Matchless, but for a good strong healthy growing plant that makes flowers of good size continuously from September until thrown out in the Spring ***it is supreme.*** Color light-shell pink. Calyx good; is not a splitter. Stem holds the flower erect and is of good average length. Is a good shipper and keeper.

Rooted Cuttings Now Ready. $10.00 per 100; $100.00 per 1000.

Absolutely nothing but clean healthy well rooted cuttings sent out.

J. H. LEACH & SON, Florists

NORTH EASTON, MASS.

BRECK-ROBINSON NURSERIES

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A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

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CONIFERS, SHADE AND ORNAMENTAL TREES

INSPECTION INVITED

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200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.

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Write for Samples and Prices

25,000 Pachysandra Terminalis, 10,000 Taxus Cuspidata Brevifolia out of Pots and Field-Grown for Lining out

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OLD-TOWN NURSERIES

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Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

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EVERGREENS FOR IMMEDIATE EFFECT — **JAPANESE MAPLES IN POTS**

Potted Strawberries our OWN GROWING — **Roses from 6-INCH pots**

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WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS

A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

"Get them at Dreer's"



The Dreer Strain of Double Petunias

For nearly half a century the majority of the growers in the United States have been depending on the Dreer strain of Double Petunias, which this season compares favorably with stock we have heretofore supplied.

We offer for immediate delivery, good three inch pots, which will quickly furnish a good supply of cuttings, in fifteen varieties, 75 cents per dozen; $6.00 per 100, or the set of fifteen varieties, one of each, $1.00.

DOUBLE WHITE PETUNIA SNOW BALL

We have a large stock of this variety which is so useful for summer cutting, 3 inch pots, 75 cents per dozen; $6.00 per 100.

Seed of our **SUPERB STRAIN OF FRINGED PETUNIAS.** Double, 75 cents per 500 seeds; $1.50 per 1000 seeds. Single, 50 cents per trade pkt.; $1.00 per 1-16 oz.; $1.50 per 1-8 oz.

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The Best Crimson Carnation in Existence

Orders booked now for February delivery

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100,000 Geraniums

From 2 and 2¼ in. Pots

S. A. Nutt, Poitevine, Grant, Ricard, Buchner, Favorite, Montmort, Doyle, Viaud, etc., $2.40 per 100; $20.00 per 1000.

2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
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Swastika Brand Cannas

Never have we had finer, fatter, clumps, or in such variety. Send in your listing orders. Shipments made at your convenience.

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PANAMA

A magnificent pale pink, strong grower and long spike. Seedling of America

Bulblets $25 per 1000

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GERANIUMS TO MAKE ROOM

POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.

ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.

ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.

FUCHSIAS, 2¼ in., $2.00 per 100.

DRACAENAS, 3 in., $4.00 per 100.

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154 Van Vranken Ave., Schenectady, N. Y.

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For Prompt Shipment

Lilium Giganteum

	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
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369 RIVER ST., CHICAGO.

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The only Reliable Importer, Grower and Wholesale Shipper for 25 years of Azalea Indica in all marketable colors and sizes, pink, white, variegated. 10 best varieties, 5½, 6, 7, 8-inch pots, 60c., 75c., $1.00, $1.25, $1.50 to $2.00.. Cash with order.

Send for list of

Choice Gladioli

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Each of the foregoing sorts . . . . Packet, 25c.; Ounce, 50c.

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Snapdragons----New and True Winter Flowering

I now offer this tested strain for the first time, in two distinct colors — **Pure White** and **Golden Yellow.** This novelty has been grown and developed for the past ten years by me and has proved to be continuous and profitable **Winter Bloomers,** producing a reliable mid-winter cut-flower crop.

Well rooted cuttings $10.00 per 100, *to the trade only.* Stock limited. Orders booked now, for deliveries in rotation after March 1st. Can also be obtained from J. Breck & Sons, Boston, Mass.

H. HUEBNER, Groton, Mass.

During Recess

Horticultural and Agricultural Society of Northern Westchester.

The eleventh annual dinner of the above society was held as usual at the New Castle Inn, Mt. Kisco, Thursday evening, January 15th. Preceding the dinner was a short business session at which James Andrews, the energetic president of the past two years, laid down the gavel of authority; but before doing so installed the new officers, as follows: John Hall, president; Arthur Rose, vice-president; John Walsh, treasurer; M. J. O'Brien, recording secretary, and in turn President Hall installed Mr. Andrews financial secretary. At 8 P. M. the members and their guests, numbering over sixty, sat down to a most excellent dinner. After the coffee and cigars President Hall introduced the toastmaster, M. C. Ebel, of Madison, N. J., who opened the speechmaking with a very lucid talk on the gardener and his vocation. He urged that if all men in the gardening profession could only grasp the potential influence for good, that the National Association of Gardeners could command by increased membership—say two or three thousand—no gardener who valued his own or fellowman's welfare would be outside the National Association. Mr. Ebel read a telegram from W. E. Maynard and a letter of regret from Chas. H. Totty, who was called to Philadelphia and who had he been amongst us would have spoken at length on the coming International Show in New York in March. The toast, "Our Society," was responded to in a very able speech by Ex-President Andrews. The new president also responded gratefully and promised all his energy in keeping the society in the high plane in which it has been kept by his predecessor. "The Seed Trade" was responded to by Samuel Burnett, of Burnett Bros., and by Al. Rickards, who kept up a ripple of laughter during his discourse. Edward Green spoke for "Our Guests," saying for himself and the others that it gave them infinite pleasure to be guests of so hospitable and respectable body of men as the gardeners and superintendents of Mt. Kisco and vicinity. The toastmaster spoke for the "Horticultural Press," maintaining that it today is the greatest friend of the employer or the gardener. The toast to the "Town Officials" was responded to by Thos. O'Brien, Commissioner of Highways, Bedford, N. Y., in a most able discourse. "Our Town" was ably responded to by T. J. Hartnett, of Mt. Kisco, who was vigorously applauded when in the course of his address he said "It is not sound policy to elect very wealthy residents to town offices, as they do not, as a rule, fill out the requirements of the minor details of their duty, nor come in close enough touch to the wants of the plain people." "The Lay Members of Our Society" was responded to by Dr. Plageman. "Our Host," by Mr. Churchfield, the amiable proprietor of the New Castle Inn, the whole company singing "He's a Jolly Good Fellow."

Interspersed between the speeches, songs were rendered from time to time by W. J. Collins of Boston, Thomas Ranger, Alfred Kast, M. R. Smith and Prof. Eggleston, the latter officiating also as accompanist. A vote of thanks was passed to Mr. Ebel for his unique qualities as toastmaster, and the proceedings came to a close with the singing of "Auld Lang Syne."

M. J. O'Brien, Rec. Sec.

ITEMS OF INTEREST IN BRITAIN.

The National Sweet Pea Society is endeavoring to secure a preventive and cure for the disease known in Britain as streak, which has caused sad havoc in many gardens. The society is offering a prize of ten guineas and a gold medal to the first person or society producing a satisfactory remedy.

In connection with the Anglo-American exhibition which is to be held at Shepherds Bush this year, a representative committee has been appointed to deal with the horticultural section. It is intended to pay special attention to the laying out of grounds, whilst flower shows and conferences are to be held during the season, which extends from May to October.

The death has lately taken place of Mr. John Mattock, of Headington, near Oxford, who was famed as an exhibitor of tea roses at the principal shows.

Jan. 19, 1914.

My Dear Sir: We enclose herewith check for another year's subscription to HORTICULTURE, which is a very valuable paper to all those interested in the florist "profession." We look to its arrival each week with renewed interest. May it continue to improve as in the past.

Pa. W. J.

Boddington's Quality Flower Seeds

(NEW CROP) FOR FLORISTS (NEW CROP)

SELECTED SEEDS, SUCCESSFULLY SOWN, SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

REMEMBER YOU MAY DEDUCT 5 PER CENT IF CASH ACCOMPANIES ORDER

AGERATUM.

	Trade pkt.	Oz.
Mexicanum album	$0.10	$0.20
Blue Perfection	.15	.50
Imperial Dwarf Blue	.10	.25
Imperial Dwarf White	.10	.25
Little Dorrit	.15	.50
Swanley Blue	.10	.25

Little Blue Star, trade pkt., 25c.; 3 pkts. for 60c.

BODDINGTON'S MAUVE BEAUTY.
Large mauve flowers; dwarf, compact, very free flowering. A unique variety. Trade pkt., 10c.; oz., 50c.

ALYSSUM.
White Gem.
A grand improvement on Little Gem, being much more compact; grand for bedding. Trade pkt., 25c.; oz., $1.00.

	Trade pkt.	Oz.	¼ lb.
Little Gem. Dwarf, best for pots	$0.10	$0.30	$1.00
Carpet of Snow. For hanging baskets and borders	.10	.40	1.25
Sweet (the old variety)	.10	.15	.50

ASTERS.
BODDINGTON'S ASTERS are Famous. Write for catalogue of other varieties and prices.

	Trade pkt.	¼ oz.	Oz.
Aster Early Wonder, White	$0.25	$0.75	$2.00
Aster Early Wonder, Pink	.25	.75	2.00

QUEEN OF THE MARKET ASTERS.
Boddington's Extra Early.

	Trade pkt.	Oz.
Pink	$0.20	$0.85
Light Blue	.20	.85
White	.20	.85
Dark Blue	.20	.85
Crimson	.20	.85
Rose	.20	.85
Flesh Color	.20	.85
Light Rose	.20	.85
Scarlet	.20	.85
Red Lilac	.20	.85
Finest Mixed	.20	.85

BRANCHING ASTERS.
Vick's Branching.

	Trade pkt.	¼ oz.	Oz.
Crimson	$0.25	$0.35	$1.00
White	.25	.35	1.00
Purple	.25	.35	1.00
Violet	.25	.35	1.00
Rose	.25	.35	1.00

Carlson's Branching.

Lavender	$0.25	$0.35	$1.00

Semple's Branching.

Shell Pink	$0.25	$0.35	$1.00
Upright White	.25	.35	1.00

Trade pkt. each of the collection of 8 varieties for $1.75.

	Trade pkt.	¼ oz.	Oz.
Vick's New Early Branching, White	$0.25	$0.75	$2.00
Vick's New Early Branching, Pink	.25	.75	2.00

BODDINGTON'S GIANT ANTIRRHINUM.
(Height, 3 Feet.)

	Trade pkt.	Oz.
Coral Red. Striking color	$0.20	$0.75
Carmine. Splendid color	.20	.75
Daybreak. Light pink	.20	.75
Brilliant. Scarlet, golden yellow and white	.20	.75
Cresia. Dark scarlet	.20	.75
Queen Victoria. Pure white	.25	1.00
Luteum. Yellow	.20	.75
Firefly. Scarlet	.20	.75
Romeo. Deep rose	.20	.75
Lilacinum. Beautiful lilac	.20	.75
Mixed	.20	.50

BEGONIA.

	Trade pkt.
Boddington's Crimson Bedder	$0.50
Erfordii. Carmine	.25
Semperflorens	.25

Vernon grandiflora, ½ ft. A fine bedding sort, with rich red flowers and glossy bronze-red foliage .25

CINERARIA.
Cineraria maritima, ½ ft. Trade pkt., 10c.; oz., 50c.
Cineraria maritima "Diamond." A vast improvement over the above. Foliage very white, leaves much serrated. Trade pkt., 25c.; $1.50 per oz.

CENTAUREA.

	Trade pkt.	Oz.
Candidissima	$0.25	$1.50
Gymnocarpa	.15	.50

GREVILLEA ROBUSTA.

	Trade pkt.	Oz.
(Silk Oak)	$0.10	$0.75

COBAEA.

	Trade pkt.	Oz.
Scandens. H. P. Blue	$0.10	$0.30
Alba. White	.20	.75

LOBELIA.

	Trade pkt.	Oz.
Erinus gracilis. Trailing light blue	$0.15	$0.50
Erinus speciosa. Deep blue; trailing	.15	.75
Crystal Palace compacta	.25	2.50
Emperor William compacta	.25	1.00

MIGNONETTE.
Boddington's Majesty. The finest of all fancy varieties of Mignonette for under glass or pot culture. Seeds saved from select spikes under glass. Trade pkt., 60c.; ⅛ oz., $1.00; per oz., $7.50.

MYOSOTIS.

	Trade pkt.	Oz.
Eliza Fanrobert. Excellent for pots, blue	$0.10	$0.50
Palustris Semperflorens. Everblooming	.25	2.00

PETUNIAS.
Boddington's Quality Double Fringed. Our double Petunias have reached the highest standard of excellence, and may be confidently relied on to produce a large proportion of double flowers of exquisite beauty and great size. ½ trade pkt., 60c.; trade pkt., $1.00.
Boddington's Snowball Double. The finest double; pure white. ½ trade pkt., 60c.; trade pkt., $1.00.
BODDINGTON'S CENTURY PRIZE. Gigantic single flower having the edges deeply ruffled or fluted; fine substance, with deep white throats. ½ trade pkt., 60c.; trade pkt., $1.00.

	Trade pkt.
Boddington's Bar Harbor Beauty, Single. Color a beautiful rose.	$0.25
Boddington's Ruffled Giants. A grand selection of single fringed Petunias	.50
Boddington's Inimitable Dwarf Compact Hybrids, Single	.25

Emperor, Single. Large blossoms, distinct in form, coloring and marking .50
Howard's Star. Rich crimson with a distinct white star in center .25
Rosy Morn. Soft carmine pink .25
Snowstorm. Pure single white .25
Hybrids, Single Mixed .....Oz., 50c. .15

PYRETHRUM.

	Trade pkt.	Oz.
Aureum (Golden Feather)	$0.10	$0.25
Selaginoides. Foliage fine serrated	.15	.50

SHAMROCK.

	Trade pkt.	Oz.
(True Irish). Small leaved ½ trade pkt., 25c.	$0.40	$1.00

SALVIA.

	Trade pkt.	Oz.
Clara Bedman (Bonfire). 1½ ft.	$0.25	$2.00
Splendens (Scarlet Sage)	.25	1.50
Splendens, Ball of Fire. Very dwarf and early	.25	3.50
Splendens aucubaefolia (Silver-spot)	.25	2.50
Splendens Carminea (new). Splendid rose carmine; dwarf	.25	
Splendens gigantea	.25	
Splendens pendula. Drooping spikes	.25	2.00
Splendens, Zurich..¼ oz. $1.75	.25	5.00

STOCKS.
Boddington's Quality Large-Flowering German Ten-Weeks Stocks.

	Trade pkt.
Brilliant Rose	$0.25
Canary Yellow	.25
Crimson	.25
Dark Blood Red	.25
Dark Violet Blue	.25
Dark Purple	.25
Flesh Color	.25
Light Blue	.25
Scarlet	.25
Snow White	.25
Fine Mixed	.25

Boddington's Quality Cut-and-Come Again.
These splendid Stocks will flower continuously through the Summer if sown early.

	Trade pkt.
Princess Alice. White	$0.25
Apple Blossom. Light pink	.25
Peach Blossom. Soft pink	.25
Chamois	.25
Bridesmaid. Rose	.25
Canary. Yellow	.25
Flamingo. Blood red	.25
Blue Jay. Light blue	.25
Violet. Dark blue	.25
Carminea. Crimson	.25

GIANT PERFECTION STOCKS.
White.
Pyramidal long spikes of large double flowers, splendid for glass culture and for florists' purposes. Trade pkt. 25c, ¼ oz. $1.25, ½ oz. $2.00, oz. $3.75.

QUALITY VERBENAS.

	Trade pkt.	Oz.
Boddington's Mammoth Hybrids. A strain of very vigorous growth, producing trusses of large flowers of brilliant and varied colors. Mixed	$0.25	$1.75
Boddington's Mammoth Auricula-flowered. Large flowers with distinct white eye	.25	1.75
Boddington's Mammoth Blue	.25	1.75
Boddington's Mammoth Pink	.25	1.75
Boddington's Mammoth Scarlet Defiance. The finest scarlet sort	.25	1.75
Boddington's White (Candidissima). Pure white	.25	1.75
Boddington's Striped. Many colors	.25	1.75
Lemon (Aloysia citriodera)	.25	1.50

VINCA.

	Trade pkt.	Oz.
Alba. White	$0.15	$0.75
Rosea. Rose	.15	.75
Rosea alba. Rose and white	.15	.75
Mixed	.10	.40

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SEED TRADE

James Farquhar, of Boston who has been ill, sails this week for Porto Rico on the Coama from New York. He expects to return in April.

Chicago, Ill.—A new seed house is shortly to be opened at 331 West Randolph street, by A. S. Ringler, of the Ringler Rose Company.

Salina, Kan.—Edward Tatro has purchased the remaining stock of the Beebe Seed Company and will carry on the business.

The Bureau of Chemistry of the Penna. State Department of Agriculture has completed arrangements for the enforcement of the new pure seed law which went into effect January 1. H. E. Gensler, the chemist who will be in charge of the work, under supervision of Chief Chemist Kellogg, has returned from Washington, D. C., where he studied similar work carried on by the national Department of Agriculture.

CATALOGUES RECEIVED.

Leamon G. Tingle, Pittsville, Md.—Catalogue of Strawberry Plants, Small Fruits and Nursery Stock.

S. M. Isbell & Co., Jackson, Mich.—Seed Annual, 1914. Strong on vegetable seeds of high quality.

Geo. H. Mellen Co., Springfield, O.—General Illustrated catalogue of plants, hardy and tender, seeds, bulbs, etc.

Clark W. Brown, Ashland, Mass.—Catalogue and Price List of Gladiolus and Dahlia Bulbs. A well-selected, choice list.

Frederick Roemer, Quedlinburg, Germany—Wholesale Catalogue of Choice German Flower Seeds. An extensive list.

Otto Katzenstein & Co., Atlanta, Ga.—Trade Price List of Seeds of American Conifers, Trees, Shrubs, Herbs for season of 1913-'14.

United Refrigerator and Ice Machine Co., Kenosha, Wis.—Illustrated Descriptive List of Ice Machines, Refrigerators and Store Fixtures.

Samuel Fraser, Genesee, N. Y.—High Grade Fruit Trees. An interesting catalogue containing some valuable instruction and advice for planters.

Good & Reese Company, Springfield, O.—1914 Spring Trade List for Florists; Nurserymen and Dealers Only. Wholesale prices on miscellaneous stock.

E. Neubert, Wandsbeck, near Hamburg, Germany—Illustrated Wholesale Price List of Ferns, Hydrangeas, Begonias and Miscellaneous Greenhouse Plants.

Roman J. Irwin, New York—Florists' Wholesale Catalogue of Plants, Cuttings, Bulbs and Choice Flower Seeds. A very neat illustrated price list, pocket width.

L. E. Williams, Exeter, N. H.—1914 Price List of Collected Native Trees, Shrubs and Plants. The most desirable ornamental material is listed and quoted in quantity.

Dammann & Co., Naples, Italy.—General Price List of Vegetable, Flower and Tree Seeds, Plants, Roots, etc., for 1914. An interesting offering of seed novelties included.

Head's Bergenfield Nurseries, Bergenfield, N. J.—Descriptive Price List of Dahlias, Carnations, Chrysanthemums, Phloxes, etc. Varieties quoted represent the cream of their respective varieties.

Thomas J. Grey Co., Boston, Mass.—General Seed, Plant and Implement Catalogue for 1914. Neat and distinctive as ever. Attractive covers in sepia. Contents, 100 pages, the usual well chosen list.

St. Przedpelski, Plock, Polonia, Russia—Price List of Tree and Shrub Seeds. Printed in Russian, French and English. An interesting and useful catalogue for importers of tree and shrub seeds.

Coldwell Lawn Mower Company, Newburgh, N. Y.—"The Long Green." An Idyl, just right for a good laugh between bites. After reading it you will buy a Coldwell Lawn Mower or else die of regret that you didn't.

Iowa Seed Co., Des Moines, Ia.—Annual Catalogue for 1914. Established 49 years, this firm puts out a catalogue worthy of the approach of their golden wedding. It is a business book and will, no doubt, fill the bill.

J. Bolgiano & Son, Baltimore, Md.—General Price List of Garden, Field, Flowers and Lawn Seeds, Poultry Foods and Supplies. Fully illustrated and quite unique in arrangement. Also Poultry Catalogue for 1914.

R. Vincent, Jr. & Sons Co., White Marsh, Md.—Wholesale Trade List of Vegetable, Greenhouse and Bedding Plants. The firm issuing this tempting price list have been growers of plants for the trade for a generation and they know how to select the good things as this publication shows. Send for a copy.

W. Atlee Burpee, Phila., Pa.—Wholesale Price Catalogue for Market Gardeners, Florists and Farmers' Clubs; 150 pages. Burpee Annual for 1914; 38th year. Also, "The plain truth about seeds that grow." Both ideal catalogues, fully illustrated and introducing a lot of promising novelties for the coming season.

J. J. Wilson Seed Annual, Newark, N. J.—Seed Annual for 1914. Mr. Wilson, in establishing the new seed house which this catalogue represents, chose as his slogan, "The Best of Everything and Everything of the Best." This and other equally attractive maxims forms the top line on each page. It makes a very nice and well-balanced catalogue.

Knight & Struck Co., New York.—Catalogue of "Heatherhome" Seeds and Plants. An unique production in the line of floral catalogues. Bound in light blue, covers fastened with a silken cord. Much space is devoted to descriptions and the two hundred and ten pages are closely filled with descriptive notes on color, culture, etc., in fine type, without pictorial illustration. There is a brief introduction by Mrs. Francis King. Each copy is sent out in a neat box and the effect is distinctly elegant.

Arthur Cowee, Berlin, N. Y.—The Modern Gladiolus—The Glory of the Garden. This catalogue, devoted exclusively to the Gladiolus, is a very "classy" production. The introduction of pictures of spikes of choice varieties in natural colors on the reading pages is quite an innovation in flower catalogue making and together with the interesting text will do well its part in increasing the appreciation of and demand for this most brilliant of summer-flowering bulbs. The illustrations are exceedingly good and true to life.

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VERBENA SEED
Michell's Mammoth Fancy Strain.

	Tr. Pkt.	Oz.
Mammoth Fancy, Blue	$0.30	$1.25
" " Pink	.30	1.25
" " Scarlet	.30	1.25
" " Striped	.30	1.25
" " White	.30	1.25
" " Mixed	.30	1.00

SALVIA SEED

Michell's Scarlet Glow	$0.50	$3.50
Bonfire	.40	2.00
Splendens	.25	1.00
Zurich	.50	4.00

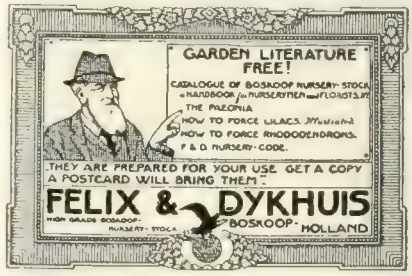
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Queen of the Market

Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choice Mixed	.20	.65

ASPARAGUS PLUMOSUS NANUS
Northern Greenhouse Grown Seed.
500 Seed....$1.75 5,000 Seeds..$15.00
1,000 " .... 3.25 10,000 " .. 29.00
Special prices on larger quantities.

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Commercial Sweet Pea Seed

of my original Winter, also Summer, Varieties, by the ounce or ton. 3,000 lbs. surplus of Nora Unwin, Gladys Unwin, Frank Dolby, Countess Spencer, Orange Spencer, King Edward Spencer, and some small lots of summer and winter Grandifloras.

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Greenhouse grown—per 100 seeds.$ .50
" " " 1000 " . 4.00

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Crego, white per oz.....$ .75
" delicate pink " ..... .75
Also all other varieties.

BEGONIA
Gracilis Luminosa, per packet.....$ .25
Semperflorens Vernon, per oz..... 4.00

CINERARIA
Maritima Candidissima, per oz.....$ .20
" " per lb..... 2.00

PANSY
Thorburn Superb Mixture, per oz..$4.00

SALVIA
Splendens per oz.....$1.25
Bonfire " 2.00
Early Dwarf Zurich " 4.00

VINCA
Alba, pure white, per oz.....$ .50
Rosea " ..... .45
" Alba " ..... .50
Mixed " ..... .45

SPIRAEA

	100	1000
Japonica	$3.00	$25.00

LILIUM

	100	1000
L. Giganteum, 6-8	$3.50	$30.00
" " Multiflorum, 6-8	3.50	
" Longiflorum, 6-8	3.00	

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Prices on Application.

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NEW FLOWER STORES.

Elyria, O.—Charles Erhardt, 926 Broadway.

Omaha, Neb.—A. Donaghue, 1622 Harney street.

St. Joseph, Mich.—D. M. Wigle, Franklin street.

Elgin, Ill.—George Souster Company, Grove avenue.

McKeesport, Pa.—Mohawk Floral Company, Walnut street.

Green Bay, Wis.—Charles De Clere, 217 N. Washington street.

New Bedford, Mass.—Davenport, the Florist, 738 Pleasant street.

Hartford, Ct.—Joseph Dolan and George Grogan, 274 Park street.

STEAMER DEPARTURES

Allan.

Pretorian, Boston-Glasgow...Feb. 5

American.

Philadelphia, N. Y.-S'h'pton.Jan. 30

Atlantic Transport.

Minnetonka, N. Y. London...Jan. 31

Cunard.

Mauretania, N. Y.-Liverpool..Jan. 28
Alaunia, Boston-Liverpool....Jan. 29

French.

La Savoie, N. Y.-Havre.....Jan. 28
Rochambeau, N. Y.-Havre....Jan. 31

Hamburg-American.

Cincinnati, N. Y.-Mediter'n..Jan. 27
Graf W'd'rsee, N. Y.-H'mb'rg.Jan. 29

Holland-America.

Noordam, N. Y.-Rotterdam ..Jan. 27

Leyland.

Canadian, Boston-Liverpool..Jan. 31
Bohemian, Boston-Liverpool..Feb. 7

North German Lloyd.

G. Washington, N. Y.-Br'm'n.Jan. 31
Berlin, N. Y.-Mediterr'n'n....Jan. 31

Red Star.

Vaderland, N. Y.-Antwerp...Jan. 28
Kroonland, N. Y.-Antwerp...Feb. 4

White Star.

Cedric, N. Y.-Liverpool.....Jan. 29
Canopic, Boston-Mediterr'n'n.Jan. 31
Olympic, N. Y.-S'hampton...Feb. 4
Cymric, N. Y.-Liverpool.....Feb. 5

BUSINESS TROUBLES.

Cleveland, O.—Mrs. Lincoln Brown, Lake street and Detroit avenue, liabilities, $1,400, assets, $400.

Bridgeport, Conn.—Chas. T. W. Main, florist, has filed a petition in bankruptcy. Liabilities $3,434.83; assets, nominally about $700.

Pittsburg, Pa.—The stock and fixtures of the greenhouse business of Frank H. Westhoff of West Hoffman Station, were sold at auction Friday, January 16th, by the receiver.

St. Louis, Mo.—In line with the "early closing movement" in this city, the retail florists have agreed to close their stores at 6 P. M. on Saturday nights hereafter.

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611 FIFTH AVENUE
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Reference or cash must accompany all orders from unknown correspondents.
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Best Service — Quick Delivery — Modest Prices
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FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
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Auto delivery of Designs and Flowers to any address in Washington.
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Flowers or Design Work
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Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y. The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Andersen, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

New York, N. Y.—Schloss Bros., The Ribbon House, have removed from 542 Broadway to larger quarters at 31-33 East 28th street.

Fort Madison, Ia.—J. M. Auge has retired from the florist business. The business will hereafter be conducted under the name of J. M. Auge & Co., J. C. Auge, manager.

West Dighton, Mass.—J. Harvey Briggs has suffered considerable damage to his violet beds by the cold spell, which found his heating equipment inadequate to the strain.

Dorchester, Mass.—One of the most regretable cases of damage by the severe cold spell of last week was the freezing of a fine batch of cyclamen, about 10,000 geraniums and other spring bedding stock in the greenhouses of W. H. Tomlinson. The insufficiency of heating apparatus and the heavy wind is given as the cause. Mr. Tomlinson estimates his loss at twelve to fifteen hundred dollars.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hote
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CHICAGO FLORISTS' CLUB.

President French's Report.

Although we have had no special doings in the way of large exhibitions, etc., our club has enjoyed a steady increase in membership and everything is progressing nicely. There has been a wonderful growth in the Florists' Telegraph Delivery Association. The florists and the people are beginning to realize the advantages of being able to "telegraph flowers" to almost any part of the country and of having nice fresh stock delivered on time, without delay, worry or express charges. Publicity has been discussed from different angles, apparently resulting in more advertising in the daily papers, street cars, etc. Still, to my mind, there has been no concerted action by the florists to create more business, especially during times when stock is plentiful and prices reasonable. I notice that around the holidays when stock is scarce, prices high, and the demand heavy, the wholesalers and commission men will double and treble their ads. when they know that it will be practically impossible to fill their orders even at advanced prices. Then again, when there is a glut in the market, and I believe that most of the gluts are caused not by a loss of business, but by the output of the greenhouses being doubled and trebled—stock in full crop, fine quality, immense quantities, and no especial efforts being made to create more business to take care of the increased production—instead of big ads you will see ads cut down and hear the same old story: "The market is rotten."

The Price Problem.

The question is, what effect would it have on the market if the big holiday ads were used, and the public given the benefit of lower prices during these gluts? Would it pay? Would it move the stock? Would the public respond? Who would derive the benefit, the retailers, commission men or growers? Who should pay for the advertising? Some say you would never be able to get the prices up again. In answer to that we have only to point to what happens during the fruit season or the vegetable season. When the first ones come in, prices are high—people expect to pay high prices when stock is scarce; as the season advances the quantity, and as a rule the quality increases but the prices decrease. As the season is near the end the prices go up again. If these conditions are true with fruit and vegetables, why would they not be true with flowers?

Bargain Sales.

I believe much more new business could be created and more money made all the way round by the retailer, the wholesaler and the grower if more money were spent advertising "bargains" during these periods of over-supply. How much business would the department stores have after the holidays if it was not for their big advertising campaigns, price reduction, stock taking, etc.? Still if you will compare their price reductions you will find that they have not reduced their prices any more and often not as much as the florist, but they are making a noise—they want everyone to know and feel that his dollar will purchase $2.00 worth of stock, and they get the business!

Fathers' Day.

Senator J. Hamilton Lewis, of Beau Brummel fame, made strenuous efforts to have a Father's day legalized. Did he have the support of the florists? Maybe he did, but I did not hear about it. They should have been up on their toes and helped this good thing along. After the popularity of Mother's day a Father's day would naturally mean another big flower day. The florist should not only be on the alert and help further any such suggestions, but should be the one to offer them. The trade should get together and have that day set at a time when flowers are plentiful and the demand light. This could be done. Our friend J. Ham doesn't care a continental whether Father's day comes in December or June—it would not make any difference to him, but it would make a vast difference to the florist. The following story told by H. K. Adair, the western advertising expert, conclusively shows that silence is not always golden.

About Donkeys.

"A donkey once fell into a well. A fox saw him fall and running up looked over the well curb. 'O, help me out, good fox,' said the donkey. 'No, I can't do it,' the fox answered. 'I have not the strength, but feeding in a grove not far away I see an elephant; call him and he will have you out in two shakes. Now I must be off.' The fox hurried away, but the donkey said to himself, 'I am very weak from the shock; if I raise my voice to call this elephant my weakness will be aggravated. No, I will not submit myself to such a strain. It is the elephant's duty to come to me without calling,' and the donkey lay back in the icy water and died of hunger and cold. A year later the fox, passing the well, saw the donkey's skeleton and exclaimed: 'If in the transmigration of souls it ever happens that donkeys become men, then surely this donkey will become one of those merchants who won't advertise.'"

Flood Philanthropy.

Last spring the Chicago Florists' Club did more real good than is generally known. I refer to the time of the disastrous storm and floods which caused heavy losses to many florists in the devastated districts. We did not come to the front with a donation, as soon as the catastrophe had occurred, as it appeared that the sufferers were being as well taken care of at the time as possible, but a few weeks afterwards when men and women were struggling to re-establish their business, our club stretched forth a helping hand, sent a statement to the trade papers, who kindly gave it prominence, telling the flood and storm victims to write our secretary, stating what they needed to help them again start in business. We received some very pitiful letters but not one appeal for cash. What these people wanted was stock or material to help them get a new start.

Our members responded to the appeal by donating thousands of rose, carnation and chrysanthemum plants, bulbs, nursery stock, etc., besides pots, building material and glass. I am pleased to state that every appeal was taken care of and a surplus left to draw on. This was practical help given at the time that it was most appreciated. We have letters on file from these people, letters that came straight from the heart, conveying their thanks to this club for what it had done for them in their hour of need—letters that any organization might well be proud of. Gentlemen, I speak of this matter at some length because it shows how much practical help a society of this kind can give if handled in the proper way. These sufferers were not club members; with two exceptions, they did not even live in our state; but the assistance was

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO
And Neighboring Towns
Are Thoroughly Covered by
SCHILLER, THE FLORIST
(Member Florists Telegraph Delivery).
Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
GEORGE ASMUS, Mgr.
2221-2223 W. Madison St., CHICAGO.
'Phone West 822

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	$2.50 per doz.		4	24 inches high,	$5.00 per doz.		
2	15 "	"	3.50 "	"	5	30 "	"	6.50 " "
3	18 "	"	4.00 "	"	6	36 "	"	9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

freely given and with our best wishes, I want again to thank our members for their prompt and liberal assistance which came as a ray of sunshine and gladdened many a heart bowed with grief. The Chicago Florist Club is to be congratulated upon having so many representative members who are willing at all times to give good substantial help in cases of disaster or urgent need.

Flower Show Topics.

I want to thank the growers for this beautiful display of carnations. I believe these exhibitions are a form of publicity that gets more publicity. The Chrysanthemum Society of America, in conjunction with the Horticultural Society of Chicago and the Chicago Florists' Club, held their annual chrysanthemum show at the Art Institute last fall. There was a splendid showing of both cut flowers and plants, but it seemed to me that the Art Institute is no place to hold a flower show. A few meetings ago the possibilities of holding a large tent show on the lake front in the spring was discussed, and a motion prevailed that our trustees draft a letter making such suggestions and mail it to the Horticultural Society for their consideration.

We ought to make preparations for a fall flower show at the Coliseum. The records of 1906 show that the paid admissions amounted to over $17,000, and the show was a financial success without any floor space being sold. Now that times are different, the retailer realizes its value and is paying for floor space at the big shows because of its advertising possibilities. If the proposition is handled right and advertised freely we ought to repeat the success of 1906 and then some. I heard it said that a flower show kills business. Look over your books of 1906 and see how the First National Flower Show of Chicago affected your business for that year, how it affected prices, and then you have a decisive answer that will satisfy you beyond a doubt.

If we intend to have a flower show this fall let us have a big one. See if we can't eclipse the record of 1906. Try to attend as many meetings as possible, bring some one with you and all join hands with the committees and make the coming year "a hummer."

CHICAGO NOTES.

The fern situation is unusual this year and the prices are higher now than at any time last year—$2.50 per 1,000. It seems, on account of the big supply in Wisconsin last summer many local wholesalers did not place their usual orders in the east. When the western supply ceased earlier than they had expected, many were found with no provision for the winter.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

1008 Vine Street, - - PHILADELPHIA, PA.

THE Florists' Supply House of America

H. BAYERSDORFER & CO.

1129 Arch St., Philadelphia, Pa.

UNITED REFRIGERATORS

Sell Flowers and keep them in best condition. All sizes Display Cases, Coolers, etc. Ask for Catalog X4.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

A FLORAL BURNS WINDOW.



Arranged in Honor of the Poet's Birthday and a Potent Attraction for Throngs of Admirers.

The Chicago creditors of H. A. Fisher Co., of Kalamazoo, Mich., held a meeting Tuesday afternoon to discuss ways and means of satisfying their claims against that firm. The Chicago market is estimated as losing fifteen thousand dollars and the Kalamazoo growers as much more. E. E. Pieser, representing Kennicott Bros. will go to Kalamazoo to look after their interests. Geo. Fisher has been the Chicago buyer for years.

Henry J. Stockmans, for seven years landscape gardener at the Chicago West Side Parks, has sent in his resignation to take effect Feb. 15th, when he will give his whole time to building up a business which he already has started in Chicago. Mr. Stockmans, who was born and reared in Belgium has followed his calling in many other countries, being three years in Kew Gardens in England, three in Scotland and France. Coming to America he was in Fairmount Park, Phila., and at the time of the St. Louis World's Fair he laid out the sunken gardens there. He came from St. Louis to Chicago. Mr. Stockmans is a great lover of his work and his skill in laying out the floor of the colliseum at the time of the National Flower Show is well remembered.

Visitors: Mr. Blackman and wife, Evansville, Ind.; H. W. Buckbee, Rockford, Ill.

NEW CORPORATIONS.

Savannah, Ga. — McCabe-Stafford Floral Company, capital stock, $1,500. Incorporators, E. F. McCabe, W. J. Stafford and Bryant Beasley.

Los Angeles, Cal.—The Van Nuys Nursery Company, capital stock, $25,000. Incorporators, C. B. Hewitt, E. W. Hewitt, W. F. Eilers, C. Lehman and H. A. Decker.

GARDENIAS

$1.50–$4.00 Doz.

We have quantity as well as quality, and in large lots we can quote special prices. All grades are perfect flowers. The difference is in the size of flowers and length of stem.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

IF YOU want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI January 19	CHICAGO January 19	BUFFALO January 19	PITTSBURG January 19
Am. Beauty, Special	35.00 to 40.00	35.00 to 40.00	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 30.00	30.00 to 40.00	25.00 to 35.00
" " No. 1	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	10.00 to 20.00
Killarney, Extra	10.00 to 15.00	12.00 to 20.00	15.00 to 20.00	8.00 to 12.00
" Ordinary	4.00 to 8.00	6.00 to 10.00	4.00 to 6.00	4.00 to 6.00
Richmond, Hillingdon, Extra	10.00 to 12.00	10.00 to 15.00	8.00 to 10.00	8.00 to 12.00
" " Ordinary	4.00 to 8.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00 to 10.00	8.00 to 10.00	10.00 to 12.00	6.00 to 15.00
" " " " Ordinary	6.00 to 8.00	6.00 to 8.00	5.00 to 8.00	..... to .....
Russell, Shawyer	..... to	..... to 20.00	..... to	..... to .....
Carnations, Fancy	3.00 to 4.00	3.00 to 4.00	..... to 3.00	..... to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50	2.00 to 3.00
Cattleyas	35.00 to 50.00	35.00 to 50.00	40.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	8.00 to 12.50	..... to	10.00 to 12.00	..... to 12.50
Callas	8.00 to 12.50	10.00 to 12.00	10.00 to 12.00	..... to .....
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	2.00 to 4.00	2.00 to 3.00	..... to 3.00
Freesias	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00
Daffodils	4.00 to 5.00	4.00 to 5.00	..... to	4.00 to 6.00
Tulips	4.00 to 5.00	3.00 to 4.00	..... to	4.00 to 5.00
Violets	.75 to 1.00	1.00 to 1.50	.75 to 1.00	.50 to 1.00
Mignonette	5.00 to 6.00	..... to	..... to	4.00 to 6.00
Daises	1.00 to 1.50	..... to	1.00 to 1.50	..... to 3.00
Sweet Peas	1.00 to 1.50	1.25 to 1.50	.50 to 1.00	1.00 to 1.50
Gardenias	20.00 to 25.00	25.00 to 30.00	..... to	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	12.50 to 15.00	12.00 to 15.00	..... to 15.00	..... to 15.00
Asparagus Plumosus, Strings (100	40.00 to 50.00	40.00 to 50.00	20.00 to 50.00	35.00 to 50.00
" " & Spren. (100 bchs.)	40.00 to 50.00	25.00 to 50.00	35.00 to 50.00	30.00 to 40.00

BUY BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
Merchants Bank Building
40 STATE ST. - - - - - BOSTON
Telephone Main 58

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50 Sample free
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly Mention HORTICULTURE.

Flower Market Reports

BOSTON Trade is decidedly stagnant in the wholesale markets. Roses are scarce but nothing else is. Even on roses the call is largely for the cheaper grades and the fancy goods move with reluctance. Carnations are plentiful. They are disposed to accumulate and growers are wondering whether McKinley Day is going to help them any. Spencer sweet peas are leading the race in popularity bringing fully double the price of the old type, which, as Wm Sim predicted a year ago are pretty near their end, as a cut flower item. Violets are quite scarce, but they are not selling, the doubles being practically dead stock in this market now. Bulb flowers are slowly increasing in quantity and improving in quality.

BUFFALO Considerable improvement was shown in market conditions beginning on Wednesday last, and Saturday saw a good clean-up on about everything that was salable. The demand helped to consume a good portion of the carried-over carnations and as short roses are on the short supply this also helped the carnation situation to a great extent. Daffodils, tulips and other spring flowers are coming in more plentifully but the supply of lilies has shortened. Paper whites are still had in abundance and there is a good general supply of the usual staples. Weddings have come on again and the White Killarney is again in demand, while only ten days previous there was no call whatever.

CHICAGO The situation remains unchanged so far as roses are concerned. The shortage is more severe than before in years and prices are ranging as high as during the holidays. With the almost entire absence of sunshine, carnations are including a large percentage of splits and weak stems but notwithstanding this there are some really fine ones. American Beauties cannot be called first-class but there are enough to meet the demand, the long-stemmed ones predominating. Some excellent lily of the valley is offered. Tulips are coming a little more freely but there is no great quantity of them. Freesia is in fair supply. There are practically no home-grown violets to be had now and the warm weather makes eastern shipments rather uncertain. Some fine sweet peas are now being cut and are quickly disposed of. Lillies and callas are in fair supply. Orchids are too much in evidence and move slowly. Some good asparagus is coming from the south, both plumosa and Sprengeri, as well as good supply of home grown. There is quite a difference between the quantity of bulbous stock seen on the counters this year and previous years. The returns have proved that the quantity heretofore grown could not be sold at a good margin of profit and many growers bought fewer bulbs in consequence.

CINCINNATI Supply has been slowly decreasing since the middle of last week. Roses at the time of this writing are far short of actual needs. The growers all appear to be pretty well off crop. Both Richmond and American Beauties are better than they were. The number of the last named is not as yet very large but the appearance of the stock indicates that a good crop is about due. The carnation cut is adequate for requirements and includes a very considerable amount of stock of a high quality. Lilies are in good supply and sell nicely. Calla offerings are not very large as yet. Violets sell well but only the quantity of doubles is sufficient. Singles are very scarce. Sweet peas include many excellent blooms that find a ready sale. The cut of bulbous stock is not very large but is sufficient for requirements. Lily of the valley and orchids sell well in limited quantities.

(Continued on page 126.)



NEW CHRYSANTHEMUMS

Each season it has been hard for us to take care of orders, as a great many customers did not order till late in the season. This year we advise placing orders early. We have a splendid supply to offer, stock guaranteed.

CHRYSANTHEMUMS

2½ Inch Stock

	100	1000
Alice Solomon, fine large early white	$12.00	$100.00
Golden Solomon, light yellow sport of Alice Solomon	25.00	
Chiefton, (a Rose pink Bonnaffon)	15.00	
Mistletoe, late white just right for Thanksgiving	15.00	
Smith's Ideal, one of the best late Whites	35.00	

Rooted Cuttings of the above $12.00 per 100; $100.00 per 1000. Except Alice Solomon, $7.00 per 100; $60.00 per 1000.

BEST COMMERCIAL VARIETIES

	100	1000
Cemoleta, yellow Oct. 1 to 15	$4.00	$35.00
Aug. Dasse, yellow Nov. 1	4.00	35.00
William Turner, white	4.00	35.00
Chas. Razer, white Nov. 1	3.00	25.00
Chadwick Improved, white Nov. 20	3.00	25.00
W. H. Chadwick, white Nov 20	$3.00	$25.00
Naomah, white	4.00	35.00
Pacific Supreme, pink	3.00	25.00
W. R. Brock, pink	3.00	25.00
Chadwick Naomah, pink	3.00	25.00

POMPONS

White—Baby Margaret, Diana, Helen Newberry. **Yellow** Mersthaim Tints, Baby, Quinola, Overbrook, Miss Julia, Allentown, Souvenir d'Or. **Pink** Fancy Queen, Minta. $3.50 per 100; $30.00 per 1000.

Write for a complete list.

S. S. PENNOCK-MEEHAN CO.

PHILADELPHIA 1608-20 Ludlow St. | NEW YORK 117 West 28th St. | WASHINGTON 1216 H. St., N. W.

BALTIMORE, Franklin and St. Paul Sts.

P M QUALITY

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON January 22			ST. LOUIS January 19			PHILA. January 19		
Roses									
Am. Beauty, Special	50.00	to	75.00	35.00	to	50.00	50.00	to	62.50
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	35.00	to	40.00
" " No. 1	10.00	to	15.00	10.00	to	12.50	5.00	to	25.00
Killarney, Extra	8.00	to	12.00	6.00	to	8.00	10.00	to	15.00
" Ordinary	5.00	to	6.00	3.00	to	5.00	4.00	to	8.00
Richmond, Hillingdon, Extra	8.00	to	12.00	6.00	to	10.00	10.00	to	15.00
" " Ordinary	5.00	to	6.00	4.00	to	5.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	12.00	6.00	to	8.00	10.00	to	15.00
" " " Ordinary	4.00	to	6.00	3.00	to	4.00	4.00	to	8.00
Russell, Shawyer	15.00	to	25.00	.....	to		8.00	to	30.00
Carnations, Fancy	2.00	to	3.00	3.00	to	4.00	5.00	to	6.00
" Ordinary	1.50	to	2.00	1.00	to	2.00	3.00	to	4.00
Cattleyas	25.00	to	50.00	40.00	to	50.00	25.00	to	50.00
Lilies, Longiflorum	8.00	to	12.00	10.00	to	12.50	10.00	to	15.00
Callas	.....	to	12.00	10.00	to	12.00	10.00	to	15.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	2.00	to	4.00	2.00	to	3.00
Freesias	2.00	to	3.00	.....	to	.....	5.00	to	6.00
Daffodils	2.00	to	5.00	.....	to	.....	4.00	to	5.00
Tulips	2.00	to	3.00	.....	to	.....	.....	to	.....
Violets	.50	to	1.00	.75	to	1.00	.50	to	1.00
Mignonette	6.00	to	8.00	.....	to	.....	3.00	to	6.00
Daisies	.....	to	2.00	.....	to	.....	1.00	to	3.00
Sweet Peas	.75	to	2.00	.75	to	1.00	.75	to	2.00
Gardenias	25.00	to	35.00	.....	to	.....	8.00	to	25.00
Adiantum	.75	to	1.00	1.00	to	1.25	.75	to	1.50
Smilax	10.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus, Plumosus, Strings 100	40.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. 100 Bchs	15.00	to	25.00	15.00	to	25.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

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55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

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107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

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Laurel, Hemlock, all Decorating Evergreens.
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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
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The HOME OF THE LILY by the 100, 1000 or 10,000.
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OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Jan. 17 1914	First Half of Week beginning Jan. 19 1914
American Beauty, Special	30.00 to 50.00	40.00 to 60.00
" " Fancy and Extra	15.00 to 25.00	20.00 to 30.00
" " No. 1	10.00 to 15.00	10.00 to 15.00
Killarney, Extra	8.00 to 10.00	8.00 to 10.00
" Ordinary	3.00 to 8.00	3.00 to 8.00
Richmond, Hillingdon, Extra	6.00 to 12.00	6.00 to 12.00
" " Ordinary	3.00 to 6.00	3.00 to 6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 15.00
" " " Ordinary	4.00 to 8.00	3.00 to 8.00
Russell, Shawyer	12.00 to 20.00	12.00 to 20.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.50 to 2.00	1.50 to 2.00

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Telephones 1664 / 1665 Madison Square CONSIGNMENTS SOLICITED

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WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
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CARNATIONS, ROSES
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Shipping Orders Carefully Filled

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 126)

NEW YORK The unsettled weather conditions have not been conducive to either flower production or flower selling. The receipts in the wholesale houses are generally light and, although there is a little more activity in the market this week, as compared with last, yet it cannot be said that trade is up to what it should be at this date. If the demand were at all rushing there would be some scrimmages in the rose line, as the quantity being received is very limited. Of other things there are enough and of some there are too many. Indications point to a lightening up of the cattleya supply. The bulbous flower receipts are not yet unwieldy but the quality on some lines will have to be better before they become a competitive feature. Violets are still a disappointment in every way.

PHILADELPHIA Conditions have improved considerably—a larger volume of business and everything selling out clean at fairly good prices. As the new week starts in prices have gone up a notch or two. Beauties are particularly scarce, with demand excellent. Other roses are not so scarce except in the shorter grades and the call seems to run more on these than the long-stemmed. Carnations have been too plentiful since the new year but they are over the hump now and the prices are more like what they ought to be. Orchids are moving more freely, and while still plentiful there is a much better tone to this market. Gardenias have shortened up and are in better shape as to demand. Sweet peas selling well; quality fine. These are in excellent supply except in the orchid-flowering varieties. The latter are picked up very promptly on arrival and few are to be seen except early mornings. Violets are suffering from the severe weather which hurts their sale probably more than any other flower. Mignonette and daffodils are strong features of the market and are bringing fair prices. Camellias are in limited supply; they are being used more as a novelty than for intrinsic merit—as compared with roses.

WASHINGTON Quite a scarcity of flowers has been reported during the week. Prices remain much the same as they were during the holidays and in some grades and varieties the florists are almost glad to pay any price. The annual shortage of roses is already apparent; red roses are not being received in quantities large enough to fill other than a small demand. On narcissi paper white and Roman hyacinths the production far exceeds the call. Carnations are still selling at $4 and $5 per hundred. A moderate amount of gardenias are being received but orchids are quite scarce again. The business during the past week has been quite satisfactory. The word "satisfactory" as here used means that the florists are doing slightly more business than they expected but the volume done is nothing to boast about.

ST. LOUIS There was quite a good market last week as far as demand was concerned. The market was not crowded with anything except carnations. These have been coming in abundance as all the local growers are on crop, but it is just opposite with roses as they are all off crop now. As to other stock such as violets, sweet peas, Roman hyacinths, paper whites, etc., the market affords just enough except in violets, which have been off all season. Good smilax is somewhat scarce.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 17 1914	First Half of Week beginning Jan. 19 1914
Cattleyas	10.00 to 40.00	20.00 to 50.00
Lilies, Longiflorum	[illegible] to [illegible]	[illegible] to [illegible]
Callas	[illegible] to [illegible]	[illegible] to [illegible]
Lily of the Valley	2.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 3.00
Freesias	2.00 to 4.00	2.00 to 3.00
Daffodils	2.00 to [illegible]	2.00 to 5.00
Tulips	2.00 to 4.00	2.00 to 4.00
Violets	.50 to .75	.50 to .75
Mignonette	2.00 to 6.00	2.00 to 8.00
Daises	..... to 2.00	..... to 2.00
Sweet Peas per 100 bunches	4.00 to 8.00	8.00 to 12.00
Gardenias	4.00 to 25.00	8.00 to 25.00
Adiantum	.50 to .75	.50 to .75
Smilax	8.00 to 10.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	15.00 to 25.00	15.00 to 35.00
" " & Spren (100 bunches)	10.00 to 15.00	10.00 to 20.00

PHILADELPHIA NOTES.

Wm. J. Muth, representing the King Construction Co. for this territory has moved his office to 112 North Lansdowne avenue, Lansdowne, Pa. (a nearby suburb of Philadelphia).

A new figure has appeared in our midst who promises to loom large in the affections of those who have advertising to sell. We refer to W. F. Therkilson, who has joined the Burpee staff. A big, pleasing personality, who looks good to your correspondent even if he has not yet handed out to him a good contract for HORTICULTURE.

Mr. and Mrs. John Burton have been resting at Atlantic City since their recent family bereavement. Mrs. Lee (mother of Mrs. Burton) who has been a member of the Burton household at Chestnut Hill for many years and who was well known to visiting members of our craft from far and near, passed away January 2nd, aged 97 years.

W. Atlee Burpee addressed the sales managers' Association of America at their annual meeting and banquet at Kugler's on the 19th inst. As the largest mail order seedsman in the world his words carried weight and were listened to with great attention. Stress was laid on the cumulative effect of continued advertising and also on the great importance of truthfulness of statements. One of the greatest handicaps to legitimate business he considered to be the fake advertizer, who destroyed confidence all along the line and much care should be taken in selecting mediums that rigidly exclude everything that looked the least overdrawn or shady.

Visitors—John Young, N. Y. City; Chas. H. Totty, Madison, N. J.; George Cruickshank, rep. R. & J. Farquhar & Co., Boston, Mass.; A. B. Clark, Milford, Conn.; H. L. Holmes, Harrisburg, Pa.; N. B. Keney, Le Roy, N. Y.; J. B. Agnew, Pacific Seed Growers' Co., San Francisco, Calif.; F. R. Pierson and J. R. Fotheringham, Tarrytown, N. Y.; F. H. Rogers, Alpena, Mich.

The following officers of the Rochester Florists' Association were re-elected for the third consecutive term at the annual meeting of the organization on Jan. 12: President, John Dunbar; vice-president, George Arnold; treasurer, W. L. Keller; secretary H. B. Stringer. Professor E. A. White, of Cornell University, spoke on the course that is offered at Ithaca in flower culture.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
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ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
For page see List of Advertisers.

Sprengeri for sale, 3½ in pots, good stock plants, $4.00 per 100. Also lot from bench. Can cut crop at once. Must be lifted to make room. Make me an offer for lot. E. G. BLANEY, Swampscott, Mass.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

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A. Leuthy & Co., Roslindale, Mass.
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Otto Heinecken, New York City.
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John McKenzie, No. Cambridge, Mass.
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A. M. Davenport, Watertown, Mass.
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BAY TREES

McHutchison & Co., New York.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York.
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Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
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BEGONIAS

A. M. Davenport, Watertown, Mass.
New Winter Blooming Begonia Florence Davenport.
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BOILERS

Kroeschell Bros. Co., Chicago.
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King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
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Hitchings & Co., New York City.
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Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
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BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Freesia and Lilium Harrisii Bulbs.
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Michell's Seed House, Philadelphia, Pa.
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Ralph M. Ward & Co., New York City.
Horseshoe Brand Lily Bulbs.
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A. T. Boddington, New York City.
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John Lewis Childs, Flowerfield, L. I., N. Y.
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A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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O. V. Zangen, Hoboken, N. J.
Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANES

Wm. Elliott & Sons, New York City.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.
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CARNATIONS

Patten & Co., Tewksbury, Mass.
Princess Dagmar.
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F. Dorner & Sons Co., Lafayette, Ind.
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S. S. Skidelsky & Co., Phila., Pa.
Carnation Philadelphia.
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Chicago Carnation Co., Chicago, Ill.
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Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Matchless.
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John Barr, So. Natick, Mass.
Carnation Mrs. B. P. Cheney.
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J. H. Leach & Son, North Easton, Mass.
New Carnation, Pink Supreme.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Manual.
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CHRYSANTHEMUMS—Continued

Chas. H. Totty, Madison, N. J.
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Special Bargains.
Harlowarden Greenhouses, Greenport, N. Y.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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A. M. Davenport, Watertown, Mass.
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Cyclamen seedlings, best German strain, separate colors, $15.00 per 1,000. JOHN ZEEH, Madison Street Florist, Grove Ave. and Madison St., Oak Park, Ill.

200,000 Giant Flowering Cyclamen Seedlings in six separate colors, our own grown strain. Seed only taken of Numberblossoms. From seed flats, August-sown, $2.50 per 100; $20.00 per 1000. Once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all packages. CHRIST. WINTERICH, Cyclamen Specialist, Defiance, O.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker. Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

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A. Leuthy & Co., Perkins St. Nurseries, Roslindale, Mass.
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Robert Craig Co., Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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A. Schultheis, College Point, N. Y.
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H. H. Barrows & Son, Whitman, Mass.
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Robert Craig Co., Philadelphia, Pa.
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Ernest Oechslin, River Forest, Ill.
Ferns for Dishes.
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Fertilene.
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Wizard Brand Cattle Manure.
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Mak-Gro, Odorless Plant Food.
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Hudson Carbon Co., Ballston Spa, N. Y.
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Washington, D. C.
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Michigan Cut Flower Co., Detroit, Mich.
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J. E. Felthousen, Schenectady, N. Y.
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Extra strong 2¼-in. stock, ready for shift. S. A. Nutt, $18.00 per 1000; $2.00 per 100. Ricard, Viaud, Buchner, Poitevine, $20.00 per 1000; $2.25 per 100; 3-in., $2.50 per 100. Cash. Prompt shipment. QUAKER HILL NURSERIES, Monroe, N. Y.

GLADIOLUS

Bidwell & Fobes, Kinsman, Ohio.
Gladiolus Panama—Seedling of America.
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GLADIOLUS—Continued

John Lewis Childs, Flowerfield, N. Y.
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Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

America, ½ to ¾ and ¾ to 1 in., very low prices. Write. Bulblets—Taconic, large bright pink, $1.00 quart; America, 50c. qt.; Groff's Silver Trophy Strain, Sec. 2, light, 50c. qt.; Meadowvale, florists' light mixt. (the best of the light mixtures), 30c. qt. (about 1000 to quart). HOMER T. CHASE, R. 14, Lawrence, Mass.

America, Extra Selected Bulbs, $15.00 per 1000. America, First Size Bulbs, $12.00 per 1000. America, Blooming Bulbs, $7.00 per 1000. America, Planting Bulbs, $2.50 per 1000. America, Bulblets, $2.50 per Peck; $10.00 per Bushel. BROOKLAND GARDENS, Woburn, Mass.

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Sharp, Partridge & Co., Chicago.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GREENHOUSE BUILDING MATERIAL

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S. Jacobs & Sons, Brooklyn, N. Y.

Lord & Burnham Co., New York City.

GREENHOUSE CONSTRUCTION

Bird Steel-frame Greenhouse Co., Inc., New York City.
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King Construction Co., N. Tonawanda, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.
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Frank Van Assche, Jersey City, N. J.
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Foley Greenhouse Mfg. Co., Chicago, Ill.
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Pierson U-Bar Co., New York City.
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Metropolitan Material Co., Brooklyn, N. Y.
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Hitchings & Co., New York City.
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Lord & Burnham Co., New York City.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
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Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.
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HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
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The Kervan Co., New York
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HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HART'S HANDY HANDLES

Geo. B. Hart, Rochester, N. Y.
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HEATING APPARATUS

Kroeschell Bros. Co, Chicago.
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Bird Steel-frame Greenhouse Co., Inc., New York City.
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Lord & Burnham Co., New York City.

HELIOTROPES

Alonzo J. Bryan, Washington, N. J.
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HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
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P. Ouwerkerk, Hoboken, N. J.
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Robbink & Atkins, Rutherford, N. J.
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HOSE

H. A. Dreer, Philadelphia, Pa.

HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
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Parshelsky Bros., Brooklyn, N. Y.
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Lord & Burnham Co., New York City.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
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Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
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Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
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The H. A. Stoothoff Co., Mt. Vernon, N. Y.
Aphicide Powder.
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R. P. Palethorpe Co., Inc., Clarksville, Tenn.
Nicoticide, the Insecticide.
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Tobacco Stems, $1.00 hundred pounds. U. CUTLER RYERSON, 108 3d Ave., Newark, N. J.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
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LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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R. M. Ward & Co., New York, N. Y.
Horseshoe Bulbology.

Fottler, Fiske, Rawson Co., Boston, Mass.

LILY OF THE VALLEY PIPS

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McHutchison & Co., New York City.
Berlin Valley Pips.
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Otto Heinecken, New York City.
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J. M. Thorburn & Co., New York City.
Cold Storage.
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P. Ouwerkerk, Weehawken Heights, N. J.
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W. & T. Smith Co., Geneva, N. Y.
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Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
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Bobbink & Atkins, Rutherford, N. J.
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P. Hamilton Goodsell, New York, N. Y.
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Breck-Robinson Nurseries, Boston, Mass.
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Otto Heinecken, New York City.
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New England Nurseries, Bedford, Mass.
Nursery Stock for Fall Planting.
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Felix & Dykhuis, Boskoop, Holland.
Nursery Stock for Fall Planting.
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Landscape Garden Co., Newburgh, N. Y.
Grape Vines, Currant Bushes; also Horse Radish.
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ONION SEED
Schilder Bros., Chillicothe, Ohio.
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ONION SETS
Leonard Seed Co., Chicago, Ill.
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ORCHID FLOWERS
Jas. McManus, New York, N. Y.
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ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
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Julius Roehrs Co., Rutherford, N. J.
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Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
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Freeman Orchid Co., Fall River, Mass.
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PALMS, ETC.
A. Leuthy & Co., Roslindale, Mass.
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Bobbink & Atkins, Rutherford, N. J.
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Godfrey Aschmann, Philadelphia, Pa.
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Robert Craig Co., Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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Joseph Heacock, Wyncote, Pa.
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Otto Heinecken, New York City.
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PAPER POTS AND DIRT BANDS
Square Paper Pots, 3-in., 5000, $3.90; 4-in., 5000, $7.25. Dirt Bands, 3-in., 5000, $3.00; 4-in., 5000, $4.50. Price list and samples free. ROCHELLE & SONS, Chester, New Jersey.

PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PETUNIAS
H. A. Dreer, Philadelphia, Pa.
Double Petunias.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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PLANT AND BULB IMPORTS
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McHutchison & Co., New York City.
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Otto Heinecken, New York.
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PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
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POTASH
German Kali Works, Inc., New York City.
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POT HANGERS
Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail I. N. KRAMER & SONS, Cedar Rapids, Iowa.

POWER AND SPRAY PUMPS
C. J. Jager Co., Boston and Providence.
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RAFFIA
McHutchison & Co., New York City.
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REFRIGERATORS FOR FLORISTS
United Refrigerator & Ice Machine Co., Kenosha, Wis.
United Ice Machines.
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RHODODENDRONS
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Bobbink & Atkins, Rutherford, N. J.
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Robert Craig Co., Philadelphia, Pa.
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W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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S. S. Pennock-Meehan Co., Philadelphia, Pa.
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Bobbink & Atkins, Rutherford, N. J.
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Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
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Wood Bros., Fishkill, N. Y.
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Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
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A. N. Pierson, Inc., Cromwell, Conn.
New Roses.
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Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
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California Seed Growers' Association, San Jose, Cal.
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Braslan Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons, Boston, Mass.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
New Crop Flower Seeds.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Send for 1914 Catalogue.
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J. M. Thorburn & Co., New York City.
New Crop Flower Seed.
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Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
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Arthur T. Boddington, New York
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S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
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Loechner & Co., New York City.
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T. J. Grey Co., Boston, Mass.
Pansy Seed.
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Albert Dickinson Co., Minneapolis-Chicago.
Lawn Grass.
The Right Seeds in the Right Place.
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S. D. Woodruff & Sons, New York.
Garden Seed.
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O. V. Zangen, Hoboken, N. J.
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Ant. C. Zvolanek, Lompoc, Cal.
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J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
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Burnett Bros., New York City.
Seasonable Seeds.
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J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds for Florists.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.
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Fottler, Fiske, Rawson Co., Boston, Mass.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."

SNAPDRAGONS

New Winter-Flowering.
H Huebner, Groton, Mass.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
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STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

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Boston

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Peter Reinberg, 37 Randolph St.
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Chicago Carnation Co., 30 E. Randolph St.
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Poehlmann Bros. Co., Morton Grove, Ill.
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Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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Frank Millang, 55-57 West 26th St.
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Philadelphia

B. S. Slinn, Jr., 55 and 57 West 26th St.
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E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers in This Issue

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Godfrey Aschmann, Philadelphia, Pa.
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CHRYSANTHEMUM IMPROVED GOLDEN CHADWICK.
A. N. Pierson, Inc., Cromwell, Conn.
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CHRYSANTHEMUM NOVELTIES FOR 1914.
Elmer D. Smith & Co., Adrian, Mich.
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COLD STORAGE LILY OF THE VALLEY.
Chas. F. Meyer, New York City.
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CUT-LEAF MAPLES WANTED.
Board of Park Commissioners, Minneapolis, Minn.
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FLOWERS BY TELEGRAPH.
Schiller the Florist, George Asmus, Mgr., Chicago, Ill.
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GIANT ONIONS.
R. & J. Farquhar & Co., Boston, Mass.
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HARDY PERENNIAL PLANTS.
Old Town Nurseries, H. P. Haendler, Prop., South Natick, Mass.
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NEW CHRYSANTHEMUMS.
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NEW SCARLET BEDDING GERANIUM, "HELEN MICHELL."
Michell's Seed House, Philadelphia, Pa.
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POINSETTIA PULCHERRIMA.
A. Schultheis, College Point, N. Y.
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POTASH.
German Kali Works, Inc., New York.
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SCALECIDE.
Wm. Elliott & Sons, New York.
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SHAMROCK SEED.
Thos. J. Grey Co., Boston, Mass.
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HELP WANTED

WANTED—A good Rose grower, for a place of 50,000 ft. of glass, near Boston. Must be able to take charge in absence of foreman. Address "W. R. M.," care of HORTICULTURE.

GARDENERS WANTED—Man familiar with greenhouse plants and propagating; permanent position in Florida. Man for country place, employing one or two assistants; must be familiar with outside work; no glass. Man for small country place—one man only—some house work. Man for greens keeper, country club; only single men need apply. State age, experience and salary wanted. CARL RUST PARKER, Landscape Architect, 910 Fidelity, Portland, Maine.

SITUATIONS WANTED

WANTED—Young Englishman (age 25) requires situation as under gardener in private establishment. Eleven years' experience under glass. Grapes, peaches, melons, carnations, malmaisons, stove and greenhouse plants; excellent references. Apply by letter to BOX 605, Moosic, Pa.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

In writing to Advertisers kindly mention Horticulture

Personal

A. G. Fehr, florist, has been elected president of the Belleville, Ill., Retail Merchants' Association.

Adam Knaught, florist, of Saugerties, N. Y., celebrated his 85th birthday at his home on January 6.

Miss Kate Harris of the Memphis Floral Co., who has been seriously ill, is now convalescing at El Paso, Texas.

David Welch of Welch Bros., Boston, started for Old Point Comfort on Thursday, January 23, in hopes to restore his health.

Miss Gertrude Marie Louise Siebrecht, daughter of Henry A. Siebrecht, Jr., florist, of New Rochelle, N Y., eloped on Tuesday night, January 13, with Louis Meyer Bull, of New York, and the pair were married in Jersey City. The bride is sixteen and a half years of age and the groom is twenty.

E. S. Miller, of Wading River, N. Y., writes from Eatonville, Wash., at the foot of Mt. Rainear, that he has been enjoying himself to the limit since his arrival there on November 27 over the C. P. R. He leaves for the east, Feb. 1, and will stop off at Chicago, Pittsburgh and other points of interest.

We are very sorry to learn of the unfortunate accident that befell W.E. Chappell, the genial secretary of the Florists' and Gardeners' Club of Rhode Island a few days ago. Mr. Chappell fell while attending to some repairs on his greenhouse, breaking two ribs—one of them piercing the lung, it is said.

Announcement is made of the engagement of William Cotter, vice-president of the Montreal Floral Exchange to Miss Amy Rebman, of Danville, Pa. Mr. Cotter is the son of Lawrence Cotter of Lakeview Rose Gardens, Jamestown, N. Y., and a graduate of the Mechanics Arts High School of Boston. Miss Rebman is the daughter of S. C. Rebman, a well known steel man of Danville and Pittsburgh.

Cincinnati visitors: Ralph M. Ward, New York; Ellis Woodworth, representing The Sefton Co., Chicago; Meyer Heller, New Castle, Ind.

Obituary

Albert E. Brownell.

A. E. Brownell, proprietor of Seekonk Gardens, Seekonk, R. I., died on January 4, aged 48 years. He had been in poor health for a long time.

Eugene Corley.

Eugene Corley, a life member of the S. A. F., and formerly secretary and treasurer of the Green Floral Co., Dallas, Texas, was killed in an auto accident on Saturday, January 10, at Fort Worth, along with three other men. The car in which they were riding was struck by a switching engine at a railroad crossing.

Woonsocket, R. I.—During the severe wind storm Tuesday night, January 13, a large part of the roof of John N. Stobbart's greenhouses was blown away.



Do you raise early or late potatoes?

There's a difference between early and late varieties that should be considered in fertilizing.

For the early kind use 1,000 pounds per acre of a fertilizer containing 10%

POTASH

5% ammonia and 8% phosphoric acid. Under average conditions, 800 pounds of 3-6-8 is the most profitable for late crops.

Some growers double these amounts, for they are convinced that Potash Pays.

Caution: Be sure your Potash for potatoes on heavy soil is in the form of Sulfate.

Write for Potash prices and for Free books with formulas and directions. We sell any amount of Potash from a 200-pound bag up.



GERMAN KALI WORKS, Inc.
42 Broadway, New York

Chicago, McCormick Block Savannah, Bank & Trust Bldg.
New Orleans, Whitney Central Bank Bldg.
San Francisco, 25 California St. Atlanta, Empire Bldg.

LEMON OIL CO'S STANDARD INSECTICIDE
SOLUBLE IN WATER
NO ODOR NO POISON

Guaranteed under the insecticide act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW



POWER AND SPRAY PUMPS
OF ALL KINDS

A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.

C. J. JAGER COMPANY
13-15 Custom House Street Boston 33 Canal Street Providence, R. I.

DO IT NOW

Save your trees from scale. Use

SCALECIDE

5 Gals., $3.25

Wm. Elliott & Sons
42 Vesey St., New York

Mention HORTICULTURE when writing

When writing to advertisers kindly mention HORTICULTURE.

In Writing Advertisers
Kindly Mention
HORTICULTURE

8 Grape Vines, 6 Currant Bushes

All best 3 year old stock. If planted now or early spring will fruit next summer. Should ground be frozen we tell you how to protect and keep them dormant ready for early spring planting. Orders accepted now and forwarded at any future time if preferred. Grapes are Worden, Niagara, Iona, Concord, the best early mid-season and late varieties. Large cherry currants. Write for list of our **$1 Friend Makers**, consisting of all kinds of Fruit Trees, Berries and Roses. **$1**

Cultivate Horse-Radish Garden, Field or Farm. Nothing as profitable. We tell you all about it.
The Landscape Garden Co., Newburgh, N. Y.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:

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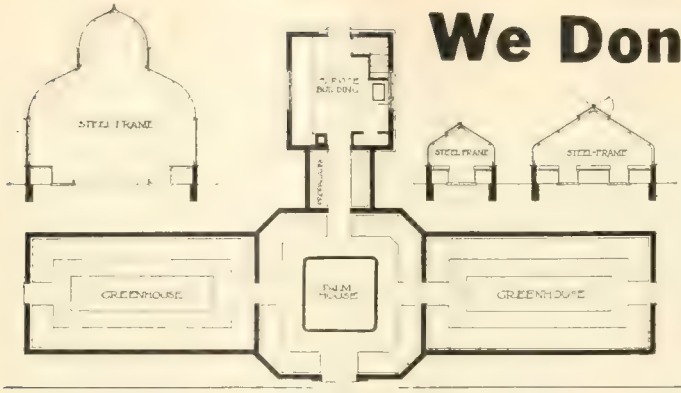
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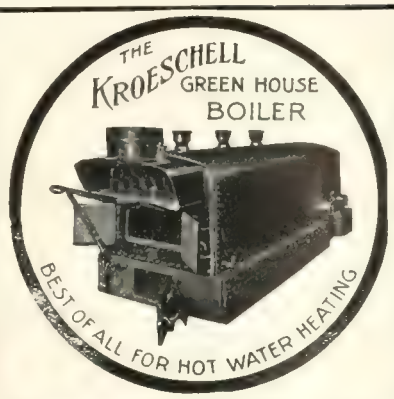


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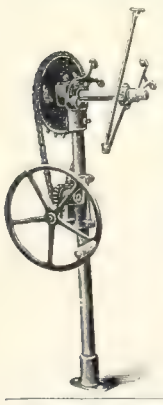
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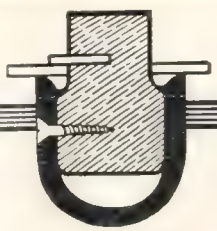
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HORTICULTURE

Vol. XIX JANUARY 31, 1914 No. 5



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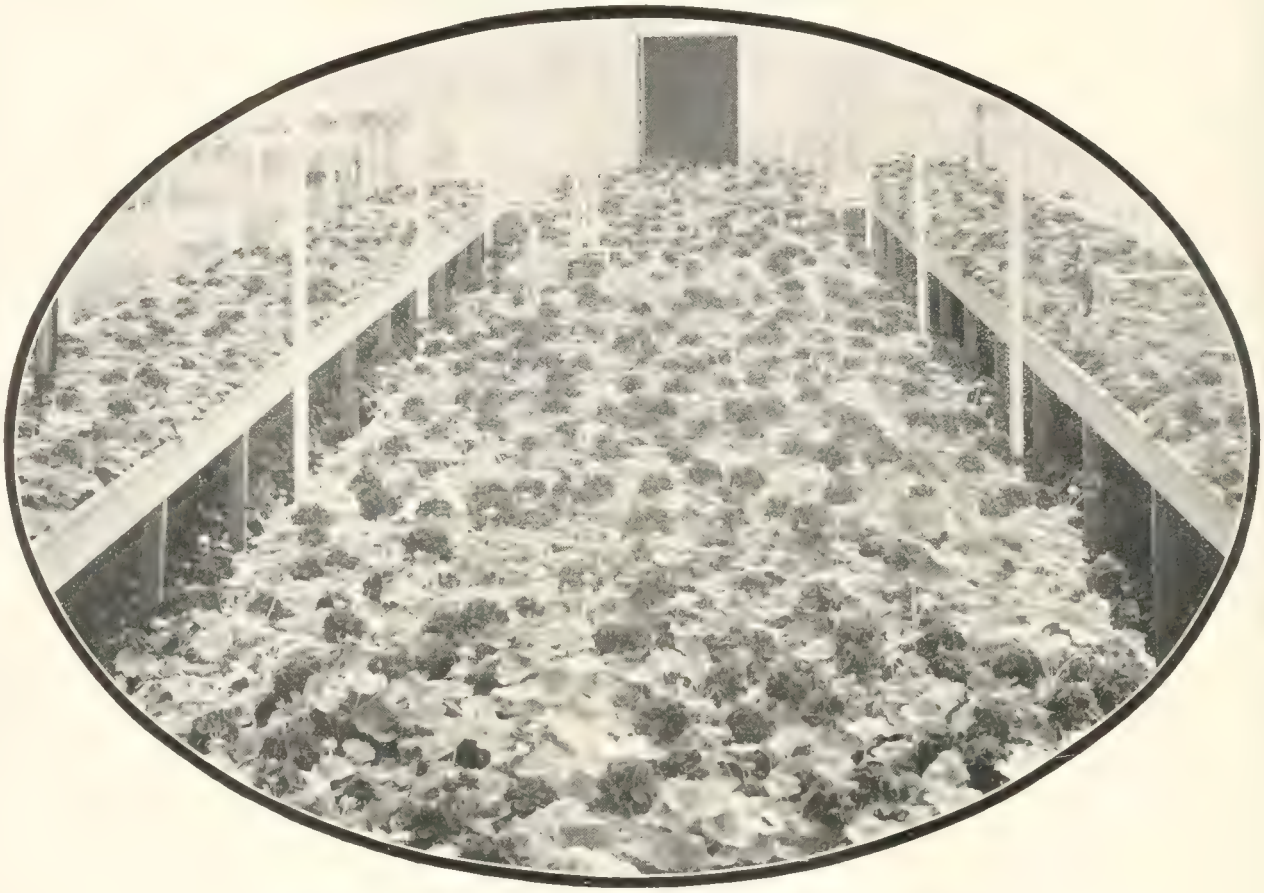
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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY NEW YORK BOTANICAL GARDEN

Care of Violets

Plenty of air on all clear days is especially necessary for violets. No set rule can be laid down, only bear in mind to give all the air possible. During all mild weather it is always better to lower the fires during the day, lest the temperature should run too high, which would soon lower the quality of the bloom as well as shorten the season. It is much safer to run the house too low than too high. Another thing, if you do not watch them closely it is easy for the aphis, both green and black, to get a start before you notice it, so fumigate often.

Christmas Solanums

This is the proper time to sow the seeds of Christmas peppers and Jerusalem cherries. The former, also called celestial peppers, can easily be grown into sturdy, well-fruited bushes in 5 and 6-inch pots by next Christmas. The seeds are sown in flats and in a rose house temperature they soon grow up to good sized seedlings requiring 2½ or 3-inch pots in their first shift and a 4-inch pot for the next. In this they should be allowed to become firmly established before planting them out in the field. Single plants in a thoroughly root-bound condition when set out in the spring stand the lifting in the fall much better than any not so compactly rooted. The value of celestial peppers is greatly enhanced by frequent short shifts when grown under pot culture, but do not make the error of using a pot one or two sizes too large. Give them about 60 degrees at night.

Crotons

Crotons are extremely nice and useful plants, when well grown. To handle these plants is no easy work. They require continued watchfulness in ventilation, atmospheric moisture, watering, temperature and cleanliness. Great care in ventilation will now be needed to equalize as far as possible the temperature inside. During sunshine it can run up to 78 degrees and at night stay at or about 68 degrees. Keep them sprayed on all good days and damp down the house two or three times a day for they like a superabundance of moisture in the air all the time. On the other hand, never let it approach a point suggestive of humid stagnancy. Cuttings root readily in a pretty warm propagating bed, but do not take to the soil so readily after being potted up, unless a brisk bottom heat is again employed in connection with hot house conditions. Even after their second shift into three-inch pots the combination of bottom heat and fairly warm quarters is by no means to be despised.

Gardenias

The propagation of gardenias is only successful where a somewhat high degree of heat combined with a rather close and congenially moist atmosphere can be steadily maintained. During midwinter a rightly placed and carefully attended indoor propagating case comes nearest to giving full satisfaction. Cuttings should have a bottom heat of 75 to 85 degrees, with top heat 10 degrees lower. Keep the sand moist and warm and give them a spray every morning. Keep shaded and rather close until they are rooted. When their roots are about half an inch long pot them up. Good soil for these is one-half leaf-mold, one-fourth ordinary good soddy loam, and the remainder sharp sand.

Orchids

Orchids will be benefitted by a little shade before the middle of February. Where conditions make it possible this shading should only be given about an hour and a half before noon and the same after noon. The ideal orchid shade—and one that should be exclusively used whenever possible—is one of either lath blinds or cloth, the former being the best as they break the direct rays of the sun. When applying shade as a paint on the glass always avoid overdoing it. Just streak the glass so as to produce a light cloud-like effect. Keep the houses fairly well damped down so as to keep the atmosphere in a moist condition. From this out the plants will require more water. Those that are not in flower should have a syringe every morning and be given some ventilation.

Starting Lobelias

Start a good batch of lobelias now Double lobelias—stock plants—will soon be covered with a fine lot of cuttings. These can be taken off and placed with carnation or chrysanthemum cuttings. Sow some seed of the trailing varieties now and they will come in handy.

Foliage Plants

The end of January and up to the end of February is an excellent time in which to do any necessary overhauling among the pandanus, crotons, dracænas, marantas, and other foliage plants. The bulk of these need an annual potting or surface dressings. Frequently plants can be shaken out of the pots, the balls picked over, fresh drainage given and some new surface soil and the same pots will do for another year. Nearly all do well in a compost containing some fern fibre or peat in addition to loam, but this is not really necessary. Marantas like some peat, as do authuriums such as Andreanum and colored varieties like Veitchii, but crotons and dracænas do well in pure loam with a little old manure and sand added. It will be necessary to give a light shading to some of the colored-leaved plants now to prevent scorching. Be sure to make it light, however, as we are still likely to get considerable dark weather. The young stock rooted during the present winter should have the benefit of some bottom heat and be kept freely syringed on all good days.

Mr. Farrell's next notes will be on the following: Abutilons; Calceolarias; Care of Mignonette; Pelargoniums; Sowing Asters; Seeds to Sow Now.

Do You Want To Be An Artist?

Did you ever read of the famous Persian carpet of gems, captured by the Saracens? The ground work was of rich brocade woven with silk, mingled with threads of gold. This carpet was one of the marvels of the world. It was four hundred and fifty feet long by ninety feet wide. It was designed to imitate a garden of flowers. Thus earth's richest gems were made to pay deference to floral loveliness. The leaves were formed of emeralds and other green stones, while the buds and blooms were composed of pearls, rubies and sapphires and other rich gems of fabulous worth, the cost reaching to a hundred millions.

The one who can put a beautiful landscape on canvas, who can paint the carnation or the rose so as to faintly represent them and who can arrest the procession of flowers as they pass by, and put them on perpetual exhibition is a genius. Any man who could go into our great floral parks and put the varied expressions of the peony, the phlox, the gaillardia and columbine, with the radiant and stately delphinium, upon a canvas so the whole scene would represent a perpetual summer, would immortalize himself. He who copies nature most faithfully wins the greatest renown. But the original transcends the copy, and you can produce the original, while the artist can be at his best only a feeble imitator. Take a live flower in all the prodigality of its loveliness—a living, breathing thing, exhaling that delicious fragrance. When it goes into the picture it can only be a corpse of itself. It cannot breathe—no aroma floats around it. It is dead. You can stand before the very highest productions of art in the effort to portray the floral world, and you are not in the presence of reality. You simply see the effigies of things beautiful. So nature rises supremely above art, and the painter can only touch the hem of our garments.

Did you ever watch the flowers as they were making their toilets? No lady of fashion displays more exquisite taste or greater care in adornment. There must be a touch here and another there. The outer petals must be just so large, the inner must wear just such colors. Watch the La Tulipe peony unfold. Did ever maiden before her glass show greater skill or pay more attention to detail. First you see a swelling bud, the surface interlaced with green and red. Then the ball expands, bound in bands of delicate pink and crimson. Look again, what a marvel of loveliness! Now the ball opens showing a lovely form of delicate flesh and carmine. Now it breathes and the breath has such sweetness. You look again and it is changing. At first it is the blush of the morning; then comes purest white with now and then a dash of red, and slowly it fades away dying so gracefully and by its side another is going through the same process. Look around you, see the columbines, the lilies, the majestic Oriental poppies all busily at work, intent as blooming girls to put on their choicest garments. You can call these things into life, but where in all the wide earth is the genius who can transcribe this work—these everchanging robes of beauty—yea, the life of these radiant hosts that put themselves on dress parade to reward you for your interest on their behalf? Never warm-hearted maiden in the radiant glow of her first love ever tried to make herself more attractive than these dainty flowers, which array themselves in all the witchery of their loveliness, that they may give you welcome.

What would you think of a picture on a vast scale 100 by 200 feet, every portion of which was aglow with the clearest and finest representations of the choicest garden of flowers? Such a production would put a man at the very front of his profession. A building would be erected for it and crowds would come to visit it. What if he could so reproduce them that the spectator would breath their very breath and could see them making their toilet! Now it is possible for you, my friend, be you man or woman, boy or girl, in one-tenth of the time it would take to train a painter, to reproduce the living forms in all their delicacy, with the tints of the rainbow woven into their garments with touchings and pencilings and tracery, far more exquisite than ever came to human genius.

See that Oriental poppy. It is seven inches across. It is a flame fashioned into a flower of dazzling brightness. Look within. See those delicate, tremulous stamens. See that seed pod. Could human skill mould its equal? See those pencilings all done up in jet. Put it on canvas? No! Such an object is the despair of the artist. What an immense amount of the highest skill nature displays in making that single flower and yet last year you got a little root like a parsnip, the size of a pencil, and lo, there is your reward. Your skill and success are such no human skill can fairly represent. So you are an artist, far transcending the mere copying art. All around you are those masses evoked by your skill. No deft hand, however, well-trained can produce them. You see an interpretation of God's love to man. Every radiant, graceful form is but an expression of His precious "thoughts" to us. You may never be a painter but you can be a florist. With a little effort you can take a piece of unsightly brown earth for your canvas and put upon it a fairer scene than ever fell from painter's brush. This is not all. You stand in the very gateway of the eternal beauty. You are a co-worker with God, with the great artist who paints life, who puts the resplendent bow on the brow of the storm, who hangs the mantle of splendor on the sun, who tints the mountains of cloud with amber and amethyst, as they stand sentinel of the dying day. Is it not wonderful that this Artist of everlasting beauty will come down and work with you, and second all your efforts?

You plant the seeds and bulbs, and wield the hoe, and the simple instrument is a wand in the hand of a king. You touch the earth and miracles of beauty spring up. Then the unseen brushes begin their work. In the sweet, still and dewy morning, in the calmness of the night, and in the heat of the noon day He works with you.

Plant the rose, the peony, the tulip and the columbine and care for them, and lo, the silent partner comes without noise or heraldry, and the blessed work goes on. Soon a thrill comes to you. You feel the honor of it, the glory of it—this partnership with Him who paints the splendors of the suns. All unconsciously you feel an ache and eagerness as though some unknown pressure were brought to bear upon you, and you are mightily moved with the fact that it is the yearning of God to reveal Himself through your brain and hands and hoe. He wants to be introduced to the world so people can understand him.

Yes, in a short time you can rival the splendor of that famous carpet which was the world's wonder and for weeks revel in its delights, allured by its resistless fascination. How you will rise in your own estimation—thankful that you can invoke the beauty of the Lord to glorify your garden of delight.

C. S. Harrison.

York, Neb.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Pale Green Foliage on Beauties

We have a Beauty house which has about five hundred and fifty plants. About fifty or more plants, from the tips down, lose their color, turning a very pale green, and then again there are other plants whose shoots are apparently healthy that run blind and lose their leaves quite heavily. These diseases, if they are diseases, have only been noticed in the last two weeks or so, to my account.

Three weeks ago we gave the benches a top dressing of soil about an inch in depth, mixing wood ashes and Clay's fertilizer in the soil. Previously there was a light top dressing of cow manure. This was rubbed over before the other dressing was applied. The plants got a little drier than usually, for the first watering after the soil was put on.

Would you please tell me if we have made any mistake in applying this top dressing, to cause either one of these troubles? If so, kindly tell what to do? We have grown roses in this house for ten years and this is the first time we have noticed these cripples so bad.

W. H.

Penna.

In reply to inquiry, would say that the grower will find that the mulch referred to had something to do with it. Wood ashes when unleached, i. e., when they have never been allowed to soak or get wet, are a good strong fertilizer in themselves, without being mixed with a strong fertilizer like Clay's. The inch of mulch applied, if the plants were not in condition to take it, would certainly be harmful, and likely cause the plants to behave as they did. To help the plants recover, a good watering or two to wash some of the chemicals out of the soil, then a light dose of lime, and keeping the plants on the dry side for a while will greatly help them to start again, although if the houses are very badly affected it will not pay to bother trying to bring the plants around. To insure a crop for June and July, or perhaps earlier, we would recommend that the grower cut some of the plants down to about three inches. Then remove some of the loose surface soil, and not water the plants until after some growth begins to show. Syringe very lightly, and from the back of the bench to the front, so as to be sure and not get them too wet. The first shoots will no doubt produce buds at once, but these should be pinched as soon as they are large enough to be seen. If possible remove these with one leaf, although this is not always possible. If these buds are removed in time the shoots will hardly stop growing. As soon as growth is started the plants can receive a little water. Begin by watering a little around each plant, and gradually enlarge this circle. As soon as the whole bench can be watered, apply a little coarse manure or rough sod to hold the water where it is put. Then when growth gets up to the first wire, either liquid manure or a mulch of cow manure can be applied. This depends on the weather; if cloudy a little weak liquid will do, and if the weather promises to be clear for a while then a little well decayed manure and bonemeal can be applied. Should too many shoots appear remove some of them, saving only about eight or ten. Be sure to cut the plants low enough, for if they are cut too high the growth will be too weak and of little account. Many fail in treating thus, just because they did not cut low enough. We would not recommend using either wood ashes or Clay's on Beauties, unless the nature of the soil warranted it. Experiment for a year or two on a few plants, and see what the result will be. There is nothing that will take the place of good cow manure when it can be had. The grower does not mention the depth of the soil in the benches. We think there is too much, our experience being that Beauties behave better when there is less soil in the benches, four inches being quite enough. It is too late to remove some of it at this season, as the roots would be disturbed too much.

Potting Cuttings

As soon as the roots begin to show very nicely in the sand, the cuttings should be potted at once. Use a rather light soil for this purpose, for heavy soil will be hard for the young rootlets to penetrate, and a good many will die. If the soil is a heavy clay, a little leaf mold or old, finely decayed manure can be added to make it more open and light. See that there is plenty of crock in the bottom of the pots to insure perfect drainage. Be very careful not to lift any more cuttings out of the sand than can be potted at once, as air will hurt the young rootlets if they are exposed any length of time.

Placing the Pots

As the cuttings are potted they should be placed on the bench at once, taking care that all the leaves are pointed one way. There is no special way to do this, and they can be placed so that they can be syringed and watered to advantage. Needless to say they should never be placed so that they will shade one another. This can be done by letting each leaf come between the pots back of it and not straight back into and over the cutting back of it.

Watering

All watering should be done quite early in the day, and on clear days only. If it is necessary to water on cloudy days, water so that the cuttings will dry off as good as they can under the condition.

Care of Newly Potted Cuttings

If the temperature in the propagator was raised the least little bit, the cuttings will not feel the change so much, and after five or six days in the rose house, will be perfectly at home. All newly potted cuttings should be heavily shaded with newspaper every clear day, and if the day is only partly cloudy a light covering of single thickness of paper will do. These coverings can be applied later every morning and removed earlier in the evening, until at the end of a week it can be left off altogether. Be very careful not to get the cuttings too wet or they will damp off. Syringe very carefully every time chance will offer with a steady stream of water. Do not use too much pressure, or some of the cuttings will be loosened in the soil, and once they are loosened they will seldom amount to anything.

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The poetic side

We are privileged to present in this issue another inspiring prose poem from the pen of our gifted and venerable correspondent, Rev. C. S. Harrison. Where can we find in the whole realm of commercial horticulture such an artist in word painting—such a master of heart-thrilling expression and beautiful imagery? It will do us all good to read it over and over again, turn aside for a little time from the worthless small talk and shop gossip which is assumed by many to be the ideal reading matter for the average florist and see if we can't imbibe some of the fervent enthusiasm and devotion to the beautiful things of our business which so animates and inspires this "grand old man" of Nebraska horticulture.

Selling park flowers

Commenting upon the protest of the florists of Memphis, Tenn., against the alleged action of the park commission of that city in selling flowers to the citizens, the Memphis News-Scimitar well says that the surplus flowers and plants might better be used in adorning the grounds of the various eleemosynary institutions, both municipal, denominational and private, and that in beautifying the hospitals and public schools the park department would be taking a humane and public-spirited course. On general principles, the florists of Memphis or any other city are justified in objecting to business competition by any public institution or department, but we are happy to say that occasion for complaint on this score is very rare indeed.

A grave mistake

In these days when the American people are just awakening to a realization of the reckless destruction of their forests and the frightful rapidity with which their beautiful native shrubbery and wild flowers are being exterminated by mercenary despoilers, it is deplorable to read in a New Hampshire paper a lengthy article descanting upon the money to be made from tearing up mayflowers and checkerberry stems and cutting off the mountain laurels for the dollars that might be realized from their sale. Then comes a Worcester, Mass., paper in approval of the rapacious sentiment and calls attention to the fact that all these things abound still in Worcester County, advising the organization of the unemployed for the purpose of collecting them for commercial purposes—practically urging the devastation of their country and the sale of their birthright "for a mess of pottage." On the other hand, we have the Massachusetts Horticultural Society awarding a medal to the town of Ashby in recognition of its preservation of its mountain laurel, New England's loveliest shrub. Worcester County boasts a horticultural society of long standing and there is one in New Hampshire, too. There would seem to be a good opening for both of these organizations to do some very much-needed educational work in their respective fields and it might, under the circumstances, be expedient and opportune for them to start in first on the daily papers which advocate a course so reprehensible.

GRAPE CULTURE UNDER GLASS.

(A paper read before the Westchester and Fairfield Horticultural Society, by Wm. Morrow.)

Let us begin with the border. I have had some experience with three different kinds, viz: inside, outside, and a combination of both, with an arched foundation under the front of the house, which allows the roots of the vine to ramble in either direction, the vines being planted inside. This I consider the best for second or spring starting, but for early forcing, the inside border has the advantage of the roots being protected from the cold compost outside, at a time when the vine is in a brisk growing temperature.

The make-up and material of the border I will pass over at this time, except to say that thorough drainage is the most important part of it. As to the planting, I prefer a young vine that has just filled its pot with roots for summer planting. This can be set in place without any check to its growth. Two-year-old dormant vines, such as we get from Europe, should be taken to some convenient place where they can be carefully shaken out and washed clean with hose, both root and top, and then planted at once, spreading out the roots to their full length in planting. This washing should be done at some distance from the grapery, to protect that place from undesirable citizens. These vines can be cut back to the desired length. From twelve to twenty inches, according to strength, is a good length to leave them. The cuts should be gone over with Thompson's Styptic or shellac, which will prevent bleeding. When this has had time to dry on the cuts, one good watering is in order, which will likely be all they will need until the young growth is a foot or more in length.

A fine spray from the hose should be given every dark day, and several times on bright days. It often happens that a young vine will make much heavier wood up the trellis, than it will in the first two feet of its growth. This can be helped to some extent by pinching out the top at a length of five feet, so that the leaf you leave is not more than one inch in size. This should not be pinched again until the end of the season. Weak laterals will start and should be allowed to make a few joints before pinching, or rather should not be pinched at all unless one of them happens to be getting too much headway at the expense of the main rod.

All of these shoots should be cut clean off at pruning time, as it is at the side of where they grew that the flowering shoot will come. If fruit is wanted the second year, one or two laterals could be allowed to hold their flower. These shoots will draw to the glass, which should be twenty inches from the trellis. Pinched at two joints ahead of the bunch, all the sub-laterals should be rubbed off between the bunch and the main rod, except the one opposite the bunch, which should be allowed to remain, but pinched to one leaf at a time. As soon as the wood of the young shoot will stand to be bent, they should be brought down a little at a time until they reach their proper place on the wires, in order to secure a good sized flower, which should make a large bunch.

A little manure water can be given about a week before the flower opens. This water should not be stronger than cow manure, as the active young roots can be checked at this stage, and both leaf and flower would be scorched. During this stage the temperature should not fall below 60. It may run up to 90 by day with strong sun but the floors and return pipes should be sprayed several times a day or the pollen will get scorched, and the set in that case is just as poor as a dark weather set, but with plenty of air and careful dampening in sudden sunbursts the longest bunches will set right to the tips. Care should be taken not to wet the flow pipes at this stage. As soon as you are sure that the set is complete, a good wash with the hose should be given and continued every bright day until color commences.

Black Hamburgs and such like varieties should be thinned as soon as it is possible to do it, because if the bunch gets close, the water will lodge there for several hours and you will find rusty berries and spoiled bunches. Muscats can be left until the berries are much larger, as so many of them are not properly pollinated that it is better to go over them a second time than to go too severe on them in a small state, until you can be sure of their condition.

When the berries are commencing to color, or the second swell, a good dose of sheep manure water seems to help them along. Nitrates in careful hands can also be used and will do good if not overdone. Don't put them in careless hands unless you court disaster. I have seen a [illegible] ruined by the use of nitrate of soda. You may get a good crop for a year or two, but you will have to replant and make a new border.

A TRIO OF TOTTY NOVELTIES.



CHALDON. M. DROUARD, LA PACTOLE.

AMERICAN CARNATION SOCIETY

Annual Meeting and Exhibition Held in Cleveland, Ohio, January 28th and 29th.

Buffalo, N. Y., Was Selected as Next Meeting Place — Officers Elected Unanimously.

The annual meeting and exhibition of the American Carnation Society, was held at the Hotel Staettler Cleveland, Ohio, Jan. 28 and 29. President R. T. Brown presided over the opening session, Wednesday evening, and presented the following address:

PRESIDENT'S ADDRESS.

For the twenty-third time we have met as a Society to do honor to our divine flower, the American Carnation. Our meeting this year must be considered a memorable one in the history of the Society, inasmuch as it will see the award of the first Dorner medal to the originator of the best undisseminated seedling carnation, entered and scored for this award at a previous annual meeting. The conditions under which this award is made are somewhat stringent, and I believe that this medal should be considered as the very highest award in the power of the Society. I would point out to raisers of seedlings the great advantage to be gained by entering the preliminary class for this award, all seedlings of promise. It seems likely that this class will become one of the most prominent at our exhibitions. A new and interesting feature of our exhibition this year is the table decorations, the staging of which shows the possibilities of the different varieties now under dissemination. It is to be hoped that this innovation will be extended along decorative lines in the future.

Representation at New York and San Francisco.

At the summer meeting of the directors and officers of our Society, it was voted to give our hearty support to the approaching Spring Flower Show to be held in New York, to the extent of taking charge of the staging and judging of the carnation section. The prize schedule is an attractive one and should appeal to every member, and I hope to see our Society strongly represented in the exhibits. We have not obligated ourselves in any way financially and I would suggest that this Society offer a special medal, or a cup, for award in a class to be decided upon at this meeting. An undertaking of this kind, in the greatest consuming city on the American continent, should certainly receive our very strongest support. Some sort of a representation in the way of an exhibit at the Panama-Pacific Exhibition in San Francisco next year might be deemed advisable, and the subject is one well worthy of discussion. I would recommend that the Society give serious consideration to the matter, and believe that our friends on the Pacific Coast will be willing to aid us to the utmost of their power.



R. T. Brown.
President, American Carnation Society.

Color Classification.

There still seems to be some difference of opinion in regard to the color line as applied to flowers on exhibition. Many of us think that the line as now drawn is satisfactory for our purpose. Notwithstanding, there may be some better plan than the one adopted of using a standard disseminated variety of carnation as representing the limit of a range of color. If anyone has a suggestion to make, I think it should be well received by this Society. It could be discussed at the present meeting and, if found worthy of adoption, put into effect. It is certainly very desirable that our standards in this respect should be beyond question.

"Gluts."

Carnation growers have, in the last year or two, suffered much loss through "slumps" or "gluts" in the market, carnations being the first subjects to feel the influence of a short demand. Is this because our markets are too greatly centralized? Would it not be well to encourage a local shipping trade in our growing centers, and thus remove some of the congestion? These "slumps" seem to occur more frequently, and when the market is low it seems to me that carnations are the first to feel the depression.

Proper Packing.

A general improvement in the method of packing carnations for the market might result in increased value of the product. The present practice of bunching has a tendency to cheapen the appearance of the flowers, and they certainly do not have the same splendid attractiveness that roses have when opened, or any other flowers shipped into market carefully packed in layers with protection between. When opened, a box of flowers, packed in this manner, presents a pleasing appearance to prospective buyers. It has always seemed to me that the bunching system is wrong. When in bunches carnations are presented to view in much the same way as outdoor flowers grown at practically little cost, and most of which, in times of large supply, pass in quantities to the refuse dump.

Elements of Popularity.

I have noticed, in trips made through retail sections in New York recently, that none of the leading stores display carnations. Roses, orchids, lily of the valley, and other choice flowers are prominent, but carnations are conspicuous by their absence. If there is a decrease in the popularity of carnations, is it because our retailers are not giving these flowers the prominence they should have? Is, as some claim, the carnation losing popularity because of lack of fragrance or keeping qualities? It may be that our esteemed past president, Fred Burki, was prompted by an observance of the latter characteristic, to offer his prize for the vase of carnations presenting the best appearance at the close of our exhibition. Whether it is so or not, the fact remains that appearances would warrant our thinking so.

Plant Deterioration.

We have heard a great deal of late

in regard to plant deterioration in many of our standard varieties. Are they deteriorating? It is a question. We may go to some establishments and find certain standard varieties looking very poorly, while in others we may see the same varieties finished in a manner that leaves nothing to be desired. May not any difference be due entirely to methods of growing, chemical changes in soil, or some other cause?

Duty to the Society.

When we consider the large number of carnation growers in the country, it is to be deplored that so few of them think it well to become members of this Society. It cannot be that the question of the amount of dues is responsible, for they are small indeed. It must be a lack on the part of many growers to realize the tremendous amount of work done by the Society in the direction of the improvement of the standing of the carnation, and the great benefit to be gained through organization. It is not an individual benefit which anyone might receive from organizations of this character, that should be looked for, but rather the general good and high standing of our business, which is best obtained by such a body as our own. Can we not increase our membership, at least to a point which shall make our Society more thoroughly representative of the whole trade? It might be possible to compile a list of growers of carnations in this country and Canada, and when the same is available, our secretary could send out a letter appealing to such growers who are not already members, to come into the fold. This is merely a suggestion.

The Program and the Outlook.

Our program for the meeting embraces essays by some of our well-known growers, on subjects which are very pertinent to the Society's work.

It is pleasing to note that some of the spirit expressed at our former meetings is again manifest. We all remember the very interesting papers and discussions which entered into our Society's work in years past, and many of us have been benefited through the information thus brought out. While, of course, a great deal of the formative work of the Society has been accomplished, new theories and ideas are advanced continually, and there could hardly be any better time for their consideration than at our annual meeting, when they could be discussed by some of our most noted growers.

It may be that we have reached the highest point of development of the carnation, as regards size, but no doubt there are many lines of improvement open, among them increased productiveness, improvement in color and more variety of color, and certainly there is need for the development of greater fragrance in our seedlings. This subject was touched upon by our ex-president at our last meeting.

I hope that the sessions of this convention will be well attended and that all in attendance will feel free to discuss the many questions which may arise, and that our deliberations and decisions will be the ultimate benefit of the Society so dear to us.

SECRETARY'S REPORT.

Secretary A. F. J. Baur then read the following report:

Your secretary begs leave to report on the past year's work as follows:

We are pleased to report a slight increase in the membership this year, instead of the decrease suffered each year for several years past. We now have 285 annual members and 12 life members in good standing; 36 of these owe for 1913. Since the last report 37 new members have been taken in and five old delinquent members have paid up. Thirty-two have been dropped from active membership on account of failure to pay the 1912 dues, so that at the present time we have an increase of 10 active members over last year. This seems to be getting back to the old order of a slight increase each year.

Since the last audit was taken, the secretary has collected moneys as follows:

Membership fees	$521.00
Advertising	265.52
Dorner Fund	11.29
Miscellaneous	799.00
Total	$1,596.81



A. F. J. Baur.

Secretary, American Carnation Society.

All of which was turned over to the treasurer and his receipt taken therefor, except $101.50, which came in while the audit was being taken. This includes $708.00, the amount of the cash premiums awarded for carnations at the National Flower Show in New York last spring and which the management turned over to us for distribution.

The books of the secretary and treasurer were audited by a professional accountant and found correct, as is shown by his report, which will follow the report of the treasurer. All accounts owing by the society were paid promptly by the treasurer on warrants drawn by the secretary and signed by the president.

The annual report was printed and distributed among the members, as is customary. The schedule of premiums for this exhibition was delayed slightly on account of several matters which needed to be adjusted at the time of the fall flower show.

Five new varieties were registered with this society since the last report went to press. The register is gradually nearing completion, although we are still getting additional data which is lacking. Our thanks are due the trade press for printing gratuitously all matter given them for publication, and assisting in gathering information regarding some of the varieties we intended to drop for lack of data.

The change in the method of conducting our meetings seems to have stimulated interest and is no doubt at least partly responsible for the improved condition of the membership roll. The plan of relieving the local contingent of all financial responsibility is meeting with general approval and should cause our conventions to be in great demand. We hope this year, to gather all the information possible, in the way of attendance, expenses, etc., for use in arranging for future meetings. The local committee has labored harmoniously for the success of this meeting and our thanks are due them for carrying out so completely the wishes and instructions of your officers. They deserve special commendation for the display of retail work, put up here. Our thanks are also due the growers who donated the blooms used for this display.

The Board of Directors held its midsummer meeting in the S. A. F. & O. H. convention hall at Minneapolis, Minn., on August 21st, 1913. A report of the transactions will be read at this meeting for the purpose of getting suggestions on several matters and your approval of the board's action in regard to the Medal of Merit.

TREASURER'S REPORT.

Treasurer F. E. Dorner's report was presented as follows:

EXPENSES.

Paid per orders on Treasurer	$1,501.78
Balance cash on hand Jan. 20, 1911	780.04
	$2,284.82

RECEIPTS

Balance Feb. 28, 1913	$630.84
Received cash	1,653.98
	$2,284.82

PERMANENT FUND

Balance Feb. 28, 1913	$2,000.00
Invested at 4 per cent	

DORNER MEMORIAL FUND.

Balance Feb. 28, 1913	$1,018.71
Interest to Jan. 1, 1914	41.13
	$1,059.84

PAID OUT.

Paid in medal for 1913	$18.71
Transferred to General Fund for 1914 Medal	40.00
	58.71
Balance, 4 per cent interest	$1,001.13

F. E. DORNER, Treas.

The auditors then presented their report confirming the same.

Report of directors was next read by the secretary and in accordance with the recommendations in the same, Peter Fisher was awarded a special medal for having produced Beacon.

NEXT MEETING PLACE.

Buffalo was selected as the meeting place for next year and the officers were then nominated as follows; all being chosen unanimously.

NOMINATION OF OFFICERS.

President S. J. Goddard; Vice President, W. F. Kasting; Secretary, G. F.

J. Baur; Treasurer F. E. Dorner; Director Fred. Burki; Judges Willam Nicholson and E. A. Stroud.

Joseph H. Hill then read the following paper.

Productiveness of the Standard Varieties of Carnations and the Cost of Producing Blooms.

After having had the pleasure of reading the interesting and instructive symposiums on the Carnation that have appeared in our various trade papers, it may seem like occupying your time in this meeting with something already threshed out and clearly understood by all, but the secretary of our society has been familiar with the fact that we keep a careful and detailed account of the producing powers of the various carnations grown on our place, and that is the reason he has asked me to prepare this paper.

It is just as essential to success for the carnation grower to keep tab on his varieties and discard the drone as it is for the successful dairy man to rid himself of the cow which fails to produce the required number of pounds of milk per year, or the up-to-date poultry man to chop off the head of the hen which fails to "come across" with her allotted number of eggs.

These figures which I will proceed to give you of the productiveness of the so-called standard varieties are compiled from an accurate record of each day's cut of blooms, and is absolutely free from guess work. No account was kept of flowers cut before they had attained character enough to be marketable. On sorts that are accustomed to "split" we have kept a separate record and were able to tell at the end of the season the percentage of imperfect flowers.

Let us consider first that grand old variety Enchantress which, with its long list of sports, constitute over 50 per cent. of the total plantings of carnations in this country. From Enchantress plants benched the 15th of July, 1912, the yield was 14.6 perfect blooms per plant and 2.8 with split calyces but saleable flowers. From White Enchantress our yield was 16 perfect flowers and 1.6 "bursts" per plant.

White Wonder, that peerless white, heads the list for productiveness with an average of 16.6 good flowers, and 1.1 faulty ones per plant. From these same Wonders we took during December, January and February, an average of four cuttings; had these early cuttings been allowed to go up into flower, it would have increased the average of this variety to 21.7 or nearly 22 flowers per plant.

Next comes Beacon with a yield of 14.2 perfect and 2.4 split flowers. Our Mrs. C. W. Ward plants produced an average of 12.3 blooms that were perfect and 1.2 that were not high grade.

The general impression is that this superb variety is a little slow in production, but even so, it makes up in quality what it lacks in quantity. The increased price received for this carnation when it is well done reimburses the grower by coming well up to the average in return of money per square foot.

Rosette, being a second year novelty last season, was robbed of a good many cuttings, and taking that into consideration an average of 14 blooms per plant with not enough split flowers to even mention speaks well for this new dark pink.

Among the varieties classed as non-splitting come **Gloriosa** and **Pink Delight.** These two wonderful introductions of the Dorners ran a "neck and neck" race throughout the season with Gloriosa, much to our surprise, showing 13.2 flowers cut from each plant and Pink Delight with 13 even.



F. E. Dorner.

Treasurer, American Carnation Society.

The grower, by planting these two varieties closer on the bench than the heavier growing types are set, is able to realize financially per square foot as much, if not more than he does from his freer sorts.

The commission man, who is onto his job, as well as the grower who markets his own product, knows that the average buyer will pay more for Gloriosa or Pink Delight because they give tone and class to his carnation display.

White Perfection with us is not so productive as White Wonder, but its purity of color and symmetry of form, combined with its size and erect stem, make us hesitate before placing it among the discards. White Perfection's average was 13 good and 1 split flowers per plant.

Commodore produced 11 blooms per plant. The average was reduced considerably by the taking of a great many cuttings. Commodore like some of the other varieties, must be planted closer than the average on the bench to make it profitable.

Benora is a grand addition to the list of truly good carnations, a model in growth, remarkable for the uniformity of bloom, and above all it is an excellent shipper and keeper. As with the popular yellow rose of today, it is only a question of a short time until Benora, as well as Yellow Prince, and the fancy crimsons find their deserved place with the flower buying public. Benora also belongs to the non-splitting class and produced 10½ blooms per plant in addition to a wealth of cuttings that found a ready sale.

Other varieties tested last year were St. Nicholas, with a yield of 13 blooms, and Wodenethe with 12.

Taking all these varieties mentioned into account, the average per plant was a fraction less than 15 blooms and in addition to this an average of 2 cuttings from each plant.

Now just a few words as to the cost of producing these 15 blooms. The plant upon which these flowers were grown occupied ¾ of a sq. ft. of the *entire ground surface* covered by glass. The recognized market value of a strong healthy carnation plant at the time of benching is, say 6 cents. The cost for coal last winter to grow that plant was .023 cents. Ten cents was expended for the labor on that plant to make possible its required production of blooms. 3.4 cents represents that plant's share of the interest on the investment. 2 cents was the tax on the plant for shipping cases, fertilizer, soil, repairs, and other small incidentals. Not until the plant in question earned .237 cents net did it begin to "bring home the bacon."

The amount of profit to be figured from a carnation plant, therefore, depends upon the condition of the market, and the grower's ability to place his product where it will bring a fair return.

The report of the Judges then followed.

Mr. Pyfer, of Chicago carnation Company next read a paper on the Policy of Carrying over Carnation Plants for second Year. It was a very practical and seviceable essay.

THURSDAY'S SESSION.

W. F. Kasting declined at the opening meeting, Thursday morning to accept the vice-presidency and presented the name of S. A. Anderson, Buffalo, N. Y., which was accepted. It was voted that hereafter nobody but the judges and secretary of the society should be allowed in the hall while

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Is maintained for the purpose of providing opportunities for efficient and ambitious men engaged in the profession of gardening. This department of the Association is at the disposal of those who may require the services of capable superintendents, gardeners or assistant gardeners. Address

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The Red Rose for 1915

HOOSIER BEAUTY

Raised by F. Dorner & Sons Co.

An ever blooming scarlet-crimson with dark velvety shadings.

A Rose of grand size, elegant form, full, fragrant and lasting.

As sweet as "Richmond"—deeper in color—with twice as many petals, Increases in beauty till fully open.

WILL BE DISTRIBUTED JOINTLY MARCH 1st, 1915

BY

F. Dorner & Sons Co.,
LA FAYETTE, IND.

AND

The E. G. Hill Co.,
RICHMOND, IND.

Five New Single Chrysanthemums

Money makers that every florist should grow:

Place your order now; Spring delivery from 2¼ in. pots.

MENSA A grand, pure white, large flat flower, with yellow eye, several rows of heavy petals of great substance. Fine habit. A splendid shipper and keeper. $1.50 per dozen, $10.00 per 100.

MISS MARY POPE A charming pink mid October, large, graceful flowers borne erect on long stems, very beautiful in sprays. Excellent habit and free. $1.50 per dozen, $10.00 per 100.

CHARLES KINGSLEY Rich buttercup yellow; large, bold flowers of great substance. Splendid habit very free; good in every way; one of the best yellows grown. $1.50 per dozen, $10.00 per 100.

YELLOW MENSA 1913 Novelty. A beautiful light yellow sport from the popular Mensa; same substance and habit as its parent. Large flowers on stiff stems. $2.50 per dozen, $15.00 per 100.

CELIA Leading Novelty. Exquisite lemon yellow; large flowers with foliage well up to the blossoms. Stiff habit—exceedingly fine for cutting in sprays. $2.50 per dozen, $15.00 per 100.

SINGLES

For 60c. per dozen, $4.00 per 100.

Jessie Curtis (crimson); **Hilda Wells** (Tuscan red, yellow at base of florets); **Mary Richardson** (Salmon and gold); **Mrs. Heneage** (Anemone, brilliant yellow).

POMPONS

50c per dozen, $3.00 per 100

Lula (white); **Mrs. Frank Beu.** syn **Souvenir d'Or** (orange and bronze); **Magnificent** (light bronze); **Savannah** (clear yellow); **Rev. W. Hoffman** (bronze tipped yellow).

FRANK P. PUTNAM

P. O. Box 12

Lowell, Mass.



KILLARNEY BRILLIANT

The best Rose we have ever introduced. If your order has not been placed

ORDER NOW

We have a splendid lot of Own Root and Grafted plants that will be ready to ship the last of February.

Own Root, $30.00 per 100; $250.00 per 1000
Grafted, 35.00 per 100; 300.00 per 1000
Plants from 2 1-2 inch pots

Address all orders to

ROBERT SCOTT & SON

SHARON HILL, - - DELAWARE CO., PA.



Improved Golden Chadwick

Improved Golden Chadwick

(Pollworth)

The Chadwick family of Chrysanthemums are the highest type of the commercial varieties, and any sport of Chadwick that is an improvement will be welcomed. This new variety has its origin in the West. We have taken part of the stock and will distribute the variety the coming season. It is described as identical with the parent in all respects except form and color of the bloom. It is a perfectly formed flower and a deeper golden yellow in color.

It is a variety that will be found all that the name implies. It means better late mums, and you need it.

Our Catalog for the Pu...

A. N. PIERSON, Inc., Cromwell, Conn.

the judging is going on, also that all the exhibition vases be painted a dark bottle green.

Discussion of Joseph Hill's paper was opened by W. N. Rudd, who could see no practical value in the conclusions as to the cost of growing any specified variety in any one place and asserted, that you cannot publish any set of rules that will make an expert carnation grower of any man, but could see good value in comparisons between varieties as to productive qualities.

President Brown agreed with Mr. Hill's proposition, and stated that Cottage Gardens records for seven years show average returns of three and one-tenth cents per flower.

W. N. Rudd read the thoughtful report of the committee on the president's address and an interesting general discussion followed.

ELECTION OF OFFICERS.

The officers as nominated were elected by an unanimous vote, S. A. Anderson being substituted for W. F. Kasting. The President appointed Wm. Nicholson, E. G. Gillett and Joseph Hill a committee on final resolutions.

Interesting discussion on the mutual relations of retailers and societies was in progress as we went to press.

Attention was called to the nine beautiful non-competitive tables of decorations made by the Cleveland Retail Florists from new varieties contributed by many carnation growers and which we shall fully describe next week.

THE EXHIBITION.

The exhibition was staged very conveniently for examination, each class being on a round table separately. Judging was done promptly and award cards were on by five o'clock on Wednesday. Much regret was expressed that the extensive exhibit of F. Dorner and Sons Co., was ruined in transit.

Considering the distance and all conditions, the New England growers have much cause for pride in their winnings.

List of Awards.

The awards were as follows:

A Roper, Tewksbury, Mass., Silver medal, for Miss A. Coombs and second in light pink class.

Stroud's, Biddeford, Maine, first for one hundred and fifty white, with White Wonder, second for one hundred Pink Delight, fifty Pink Delight and fifty Enchantress.

Fred Dorner and Sons Co., first for one hundred Yellow Prince.

W. N. Rudd, first for one hundred Rosette; second for fifty Rosette and one hundred white seedling.

S. J. Goddard, Framingham, Mass., first for one hundred Pink Delight, fifty each Gloriosa, Pink Delight, Rosette, Beacon and Yellowstone. Second on fifty White Perfection.

S. S. Skidelsky & Co., sweepstakes and best one hundred light pink with

"Get them at Dreer's"

Tuberous Rooted Begonias, Gloxinias, Fancy Leaved Caladiums

Our Usual Superior Strain

You Can Buy Cheaper but Not Better Stock.

BEGONIAS, Single in Separate Colors. Scarlet, crimson, rose, white, yellow and orange, 40c. per dozen; $2.50 per 100, $22.50 per 1000.

BEGONIAS, Single in Choicest Mixture. 35c. per dozen; $2.25 per 100; $20.00 per 1000

BEGONIAS, Double in Separate Colors. Scarlet, rose, white and yellow, 60c. per dozen; $4.50 per 100, $40.00 per 1000

BEGONIAS, Double in Choicest Mixture. 50c. per dozen, $4.00 per 100; $35.00 per 1000.

BEGONIAS, Frilled in Separate Colors. Scarlet, white, pink and yellow. These are with wavy and frilled petals, like some of the newer Petunias. 85c. per dozen; $6.00 per 100.

BEGONIAS, Dwarf Hybrid Lafayette. Brilliant crimson-scarlet, $1.50 per dozen; $12.00 per 100.

BEGONIAS, Dwarf Hybrid Duke Zeppelin. Pure rich scarlet, $1.25 per dozen; $8.00 per 100.

CALADIUMS, Fancy Leaved. The finest collection and the most extensive stock in America. Choice Standard Varieties, $1.75 per dozen; $12.00 per 100; $100.00 per 1000. Choice Rare and New Varieties, $2.25 per dozen; $15.00 per 100; $140.00 per 1000. Recent Introductions, $3.50 per dozen; $25.00 per 100. Choicest Mixture, $1.50 per dozen; $10.00 per 100; $95.00 per 1000.

GLOXINIAS, Dreer's Superb in Choicest Mixture or in Separate Colors. As blue, red, white, red with white edge, and blue with white edge, 60c. per dozen; $3.50 per 100; $30.00 per 1000.

GLOXINIAS, New Emperor (Hybrida Imperialis) in choicest mixed varieties, 85c. per dozen; $6.00 per 100.

HENRY A. DREER, Inc. 714-716 CHESTNUT STREET PHILADELPHIA, PA.

The Above Prices Are Intended for the Trade Only.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI

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BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

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ERNEST OECHSLIN

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Imported and Potted

FREEMAN ORCHID COMPANY

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Largest Importers, Exporters, Growers and Hybridists in the World

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ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

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ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.

Rutherford, N. J.

Ask any successful grower from whence he receives his best

Chrysanthemum Novelties

ADRIAN or SMITH will be the reply

You need Our 1914 Novelties because they will be the best sellers next year.

You have our Catalogue, or we will be pleased to mail you one.

Elmer D. Smith & Co.

ADRIAN, MICH.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. No 1, Hoboken, N. J.

BEST PALMS

All Varieties. All Sizes.
Send for Price List.

Joseph Heacock

Wyncote, Pa.

Poinsettia Pulcherrima

Nice strong plants from 2 1-2-in. pots, $6.00 per 100; $55.00 per 1000

AZALEAS, CYCLAMEN, LILACS

A. SCHULTHEIS

COLLEGE POINT, N. Y.

Boston Ferns

Small Ferns for Dishes

GERANIUMS, AZALEAS, ETC.

JOHN McKENZIE

NORTH CAMBRIDGE, MASS.

PEERLESS PINK

The Best and Most Prolific Carnation for You to Grow

Compare this record with other new and standard varieties. From 2,000 plants we cut 14,092 perfect flowers from September 1 to January 1, an average of seven blooms per plant first four months. Early bloomer, easy to handle, grows quickly, producing an abundance of perfect flowers which are the **Best Keepers and Shippers.** Your customers like a good dark pink carnation today and demand it, but you are not able to fill the demand as there has not been a **good dark pink** heretofore. Therefore grow **Peerless Pink** and keep your customers pleased. Rooted cuttings ready now. $12.00 per 100, $100 per 1000.

The **Herald, Scarlet,** three years the best scarlet at the Flower Shows. The Herald is making good with 95 per cent. of the growers who bought it last year. Rooted cuttings ready. $6.00 per 100, $50 per 1000.

STANDARD VARIETIES FOR FEBRUARY DELIVERY.

	Per 100	Per 1000
Peerless Pink, brilliant pink (C. C. Co.)..	$12.00	$100.00
The Herald, Scarlet	6.00	50.00
Enchantress Supreme, deeper than Enchantress	6.00	50.00
Pink Delight, flesh pink	6.00	50.00
Gloriosa, medium pink, Winsor shade...	4.00	30.00
Rosette, dark pink	4.00	30.00
Benora, variegated	$4.00	$30.00
Pocahontas, crimson	4.00	30.00
White Wonder	3.00	25.00
White Enchantress	3.00	25.00
Washington, dark pink, sport of Enchantress	3.00	25.00
Enchantress	3.00	25.00

CHICAGO CARNATION CO.

30 E. Randolph St., : : CHICAGO, ILL.

A. T. PYFER, Mgr.

Philadelphia. S. A. F. Bronze medal for best fifty with same variety.

E. G. Hill Co., first for one hundred Pocahontas, one hundred Benora and fifty each White Perfection, White Enchantress and Enchantress; second on fifty each White Wonder and Gloriosa.

Cottage Gardens Co., Bronze medal for best hundred any variety with Mrs. C. W. Ward, first for hundred scarlet with Beacon, also Dorner medal with Matchless.

Chicago Carnation Co., first for fifty Shasta; second for hundred Peerless Pink, hundred Herald and fifty Herald.

W. B. Schroeter & Co., first for fifty O. P. Bassett.

Dailledouze Bros., first for fifty Enchantress Supreme.

J. D. Cockcroft, first for fifty Northport; second for fifty Enchantress.

Pittsburgh Cut Flower Co., first for fifty Winsor.

F. R. Pierson Co., showed rose Cecille Brunner and E. G. Hill Co., made a beautiful display of rose Ophelia.

J. A. Peterson staged a fine lot of begonia Melior, and W. A. Manda a suberb collection of orchids and greenhouse plants.

Honorable mention was given to W. A. Manda, J. A. Peterson and also to all the rose exhibitors. Certificate of merit was given to S. S. Pennock-Meehan Co., for carnation Mrs. Akehurst and the Lawson silver cup was awarded to J. M. Gasser Co., for vase of blooms previously mentioned.

Colonel A. N. Pierson, showed a superb vase of rose Hadley.

E. Allen Peirce showed Peirce paper flower pot in ten sizes.

Witterstaetter's exhibit all arrived in bad shape.

Princess Dagmar

Without Doubt
The Best Crimson Carnation in Existence

Orders booked now for February delivery

Rooted Cuttings: $12.00 per 100, $100.00 per 1000

PATTEN & CO., TEWKSBURY, MASS.

You Cannot Possibly Go Wrong

by investing in the

PHILADELPHIA Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000

2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.

1218 Betz Building

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Stop, Look and Listen

UNROOTED CARNATION CUTTINGS

We want the room for spring stock, and will sell 20,000 unrooted cuttings, carefully shipped in damp moss, as follows: **ENCHANTRESS SUPREME, HERALD, BENORA, COMFORT,** at $3.00 per 100; $25.00 per 1000. **ENCHANTRESS, WHITE WONDER, C. W. WARD, BEACON, ALMA WARD, GLORIOSA, WINONA, PRINCESS CHARMING,** at $10.00 per 1000, or $1.50 per 100. We will root them for you at $8.00 per 1000 extra. 30,000 **CHRYSANTHEMUMS GOLDEN GLOW, UNAKA, CHRYSOLORA, SYME, GLORIA, SNOW, HALLIDAY, WELLS PINK,** etc., ready in R. C. and 2 inch, at $10.00 and $15.00 per 1000—can be assorted.

CASH at These Prices.

The Harlowarden Greenhouses, Greenport, N. Y.

OUR CARNATION **Prince Edward**

Has been grown here for five years. It is a cross between Beacon x Prosperity seedling. A very healthy free bloomer from Thanksgiving on; also a non-splitter. Out of 2000 plants we have not had 25 splits; also an excellent keeper, and can recommend it as a most profitable variety.

A. BEGEROW

A. BEGEROW 15th St. and Clinton Ave., Newark, N. J.

CHRYSANTHEMUMS Our Novelties for 1914 are ready for immediate delivery on such varieties as Meudon, Jas. Fraser, Mrs. R. H. Boggs, Mrs. Paul Moore, Daily Mail and Mrs. Ernest Wild at $2.00 plant; $20.00 per dozen. Chieftain, $5.00 per dozen.

We had over twenty acres of 'Mums growing outdoors last year in order to guarantee our stock being propagated only from plants that had not been fed or forced in any way.

Send for our catalogue of over four hundred and fifty varieties, including the Gold Medal Singles; the Caprice Family, which we introduced last year; the Early Flowering varieties which are becoming the rage and all other Standard varieties.

CHARLES H. TOTTY, Madison, N. J.

PINK SUPREME THE CARNATION FOR MONEY PRODUCTION

Early, free, persistent, makes ideal plants in field; lifts easily. Color, light-shell pink. Does not fade in hot weather. Tested thoroughly by five competent growers and easily outblooms all others of its color. Awarded Report of Merit by Gardeners and Florists' Club of Boston, 1913. First prize at show of Co-operative Flower Market, April, 1913. In heavy demand at every high class store in Boston.

Rooted Cuttings Now Ready. $10 per 100, $100 per 1000

J. H. LEACH & SON NO. EASTON, MASS. *Or* J. M. COHEN, Co-operative Flower Market 2 PARK STREET, BOSTON, MASS.

BRECK-ROBINSON NURSERIES

LEXINGTON, MASS.
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A large and complete assortment of
Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

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PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES
INSPECTION INVITED
Nurserymen and Florists, RUTHERFORD, N.J.

THE FRAMINGHAM NURSERIES

200 ACRES, TREES, SHRUBS, EVERGREENS, VINES, ROSES, ETC.
DEAL TRADE MARK
FINE STOCK OF RHODODENDRONS, KALMIAS AND ANDROMEDAS.
Send for Price List
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Official organ of the American Association of Nurserymen. Circulation among the trade only. Published Monthly. Subscription price $1.00 per year. Foreign subscriptions $1.50 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
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ROCHESTER, NEW YORK

PERENNIAL PLANTS

Write for Samples and Prices
25,000 Pachysandra Terminalis, 10,000 Taxus Cuspidata Brevifolia out of Pots and Field-Grown for Lining out
Our Catalogue for the Asking

OLD-TOWN NURSERIES
M. P. HAENDLER, Prop. SOUTH NATICK, MASS.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.
Write for Trade List.
W. & T. SMITH COMPANY, Geneva, N. Y.

EVERGREENS FOR IMMEDIATE EFFECT
Potted Strawberries our OWN GROWING
JAPANESE MAPLES IN POTS
Roses from 6-INCH pots
Send us a list of your wants
P. HAMILTON GOODSELL, 1905 West Farms Road, NEW YORK CITY

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF
Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.
Our Illustrated and Descriptive Catalogue for the asking
THE BAY STATE NURSERIES, North Abington, Mass.

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Cranston's Excelsior, Ailsa Craig, Gibraltar Giant

Each of the foregoing sorts . . . . Packet, 25c.; Ounce, 50c.

R. & J. FARQUHAR & CO., BOSTON MASS.

Snapdragons----New and True Winter Flowering

I now offer this tested strain for the first time, in two distinct colors — **Pure White** and **Golden Yellow.** This novelty has been grown and developed for the past ten years by me and has proved to be continuous and profitable **Winter Bloomers,** producing a reliable mid-winter cut-flower crop.

Well rooted cuttings $10.00 per 100, *to the trade only.* Stock limited. Orders booked now, for deliveries in rotation after March 1st. Can also be obtained from J. Breck & Sons, Boston, Mass.

H. HUEBNER, Groton, Mass.

PERENNIALS AND WHAT THEY MEAN FOR THE AMERICAN GARDEN.

(A paper by Richard Rothe read before the Pennsylvania Horticultural Society, at the January meeting.)

Under hardy perennials we understand herbaceous plants of marked longevity, distinguished by ornamental foliage and flowers. As such we know they have been cherished in the gardens of the ancients and, centuries later, we notice their prominent part on the terraces of the Italian Renaissance. The rigid formality of the French epoch and the stiff lines of the succeeding Dutch gardens left little room for their use, while the following era of the free naturalistic English park, though, at the beginning appreciative and liberal in granting space, soon indulged in the carpet-bedding fad to an extent to render the hardy herbaceous border a side issue of secondary importance.

The Revival of Interest.

The first impulse for the present general revival of interest in herbaceous plants was given by Great Britain, with Germany as a close second. Ideal climatic conditions, and a traditional perception and love for the beautiful in floral garden effects resulted in examples well worth envy. Old-time favorites, for a long period inmates of modest country peoples' front yards, re-entered the gates of the gardens of the aristocracy. We witnessed the beginning, not of a fad, but of a new era. As its morning chime we heard the plea for the lovely treasures of our grandmothers' old-fashioned flower gardens. The movement found ready enthusiasts on this side of the Atlantic and has steadily gained in strength. Today we find ourselves face to face with the perennial flower garden as a distinct branch of modern garden art.

Nursery catalogues are handed over to us year after year, but we rarely fully appreciate the immense work entailed in their make-up and the meaning of well-selected illustrations which in many instances convey excellent suggestions for artistic arrangements. To be just, we cannot overlook the important part of missionary work done by enthusiastic amateurs. The high educative value of the books of Miss Gertrude Jeckyl, published in England, have fructified the conception of artistic use of hardy perennials of home owners and gardeners both here and abroad. There are also popular works of American writers on the same subject which are well worth serious study.

Popularity Growing.

The herbaceous flower garden as a modern feature of American home-grounds has become a fact and as to its future there is no doubt. Of course the skeptic still points at the brief flowering period of many of the best plant species in this class. It is sometimes asserted that the hot summer climate of our middle Atlantic and Central States is a serious obstacle for a venture in the given direction. We are also reminded of the difficulties in keeping up the neat and tidy appearance of such gardens throughout the season. Nevertheless, those gardens continue to steadily gain in general popularity. There must be a reason for this state of affairs. Compare the customary formal parterre or the conventional shape and looks of the better class of flower beds on our lawns with the advanced type of modern herbaceous gardens and you will find it.

Entering the modern herbaceous flower garden, preferably the one of regular formal design surrounded by the greenery of hedges, or protected by moderately high walls or white wooden fences, there is nothing of imposing grandeur in it, but we very soon feel that sheltered atmosphere of a private home. We notice different ground levels of various divisions; retaining walls crowned by balustrades, connecting stairways with white wooden arches overhead, serving as support for Rambler roses, wistarias and clematis vines. I mean the formality which, in resorting to a few architectural additions for artistic effect as sun dials, statuary, Japanese stone lanterns, seats, garden houses and pergolas, does so, without falling a prey to the pergola epidemic of today. What we aim at, is a fitting scenic setting for an ever-changing floral coming and passing away; a setting to give background and tuneful resonance for a beautiful harmony in rich and glorious color accords.

(To be continued)

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Winner of Two Gold Medals

DO NOT FAIL to get in your order early for **Matchless** the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

This Carnation won the Dorner Memorial Medal at Cleveland, January 28th, 1914.

ORDERS BOOKED NOW FOR FEBRUARY DELIVERY
(All stock sold to February 1)

Price for Rooted Cuttings
$12.00 per 100
$100.00 per 1000

ORIGINATORS

Cottage Gardens Co., Inc.
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THE MATCHLESS WHITE
Note the fine **form** and great **depth** of the flower.

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Swastika Brand Cannas

Never have we had finer, fatter, clumps, or in such variety. Send in your listing orders. Shipments made at your convenience.

CONARD & JONES CO.
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1012 West Ontario St., Philadelphia, Pa.

The only Reliable Importer, Grower and Wholesale Shipper for 25 years of Azalea Indica in all marketable colors and sizes, pink, white, variegated. 10 best varieties, 5½, 6, 7, 8-inch pots, 60c., 75c., $1.00, $1.25, $1.50 to $2.00. Cash with order.

Send for list of

Choice Gladioli

JOHN LEWIS CHILDS
Flowerfield, L. I., N. Y.

100,000 Geraniums From 2 and 2¼ in. Pots

S. A. Nutt, Poitevine, Grant, Ricard, Buchner, Favorite, Montmort, Doyle, Viaud, etc., $2.40 per 100; $20.00 per 1000.

2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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Sole American Representative of:

J. HEINS SONS, Halstenbek (Germany)
Fruit Tree Stock, Forest Trees, Hedge Plants.

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Lily of the Valley, Lilacs for Forcing.

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High-grade Vegetable Seeds.

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Wholesale Bulbgrowers.

Also Holland and Belgium stock, as Rhododendrons, Azaleas, Palms, etc.

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Mention HORTICULTURE when writing

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

ROBERT CRAIG CO.
ROSES, PALMS,

and Novelties in Decorative Plants

MARKET and 49th STREETS, PHILADELPHIA, PA.

Gladiolus Niagara

Color—soft yellow, slightly tinged rose pink in throat. Flowers 4½ in. across. Very strong grower 4½ to 5 foot high.

First Size, - -	$100 per 1000
Second Size - -	75 " 1000
Third size - -	50 " 1000
Bulblets - - -	10 " 1000

PURE STOCK.

BIDWELL & FOBES
KINSMAN, OHIO

GERANIUMS TO MAKE ROOM

POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.

ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.

ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.

FUCHSIAS, 2¼ in., $2.00 per 100.

DRACAENAS, 3 in., $4.00 per 100.

J. E. FELTHOUSEN
154 Van Vranken Ave., Schenectady, N. Y.

Mention HORTICULTURE when writing

For Prompt Shipment

Lilium Giganteum

7-9 in. (300 bulbs to case) $7.00 $60.00
8-9 in. (250 bulbs to case) $8.50 $75.00

A. Henderson & Co.
369 RIVER ST., CHICAGO



HENDERSON'S
NEW CROP
ASTER SEED

HENDERSON'S INVINCIBLE ASTERS

A superior strain of Giant Peony Flowered Asters—of great importance for florists' cutting purposes.

LAVENDER, CRIMSON, BLUE, ROSE-PINK, WHITE, PURPLE.

Trade packet of 1000 seeds, 50c.; per oz., $2.00.

SEMPLE'S LATE FLOWERING ASTERS

Large, double, long-stemmed flowers, splendid varieties for florists.

LAVENDER, CRIMSON, SHELL-PINK, WHITE, PURPLE.

Trade packet of 1000 seeds, 25c.; per oz., $1.25.

CREGO'S ASTERS

A highly developed Comet type of florists' Asters. Our seed comes from the originator.

WHITE, CRIMSON, ROSE-PINK, SHELL-PINK, LIGHT BLUE, VIOLET.

Trade packet of 1000 seeds, 75c.; per oz., $3.00.

"QUEEN OF THE EARLIES" ASTERS

(Queen of the Market), valuable on account of their extreme earliness and for cutting; plants 12 inches high; medium-sized double flowers on long stems.

WHITE, ROSE-PINK, INDIGO BLUE, SCARLET.

Trade packet of 1000 seeds, 25c.; per oz., 75c.

ASTERMUMS

A new race of American Comet Asters resembling Japanese Chrysanthemums.

SNOW WHITE, ROSE-PINK, LAVENDER.

Trade packet of 1000 seeds, 75c.; per oz., $4.00.

PETER HENDERSON & CO., - 35-37 Cortlandt St., NEW YORK

During Recess

Morris County Gardeners' and Florists' Society.

The Morris County (N. J.) Gardeners' and Florists' Society assembled around the festive board on Tuesday evening, January 20, and enjoyed to the limit the 18th annual reunion of this energetic organization. Charles B. Weathered filled the position of toastmaster with the ability grown from long experience, and the speeches were replete with wit, wisdom and instruction. The tables were beautifully decorated and there was plenty of excellent music, instrumental and vocal. After the opening words of welcome by President Ernest Wild the various toasts and those who responded were as follows:

The Morris County Gardeners' and Florists' Society, by W. H. Duckham; The Society of American Florists and Ornamental Horticulturists, by Chas. H. Totty; Gardening as a Profession, by Dr. Evans, Morris Plains; The New York Florists' Club, by Frank H. Traendly; The work of the Morris County Gardeners' and Florists' Society, by C. Turner, Morristown; Morris County, by E. J. Burke; The Horticultural Trade Press, by J. Harrison Dick; The Ladies, by J. Austin Shaw; The Provincial Press, by F. G. Aulsbrook; The National Association of Gardeners, by M. C. Ebel. The floral decorations were grand.

The third annual banquet and dance of the employees of Bobbink & Atkins, Rutherford, N. J., was held at the Municipal Square School, Friday evening, Jan. 24. The ballroom was beautifully decorated with palms, bay trees and flowering plants from the firm's nurseries, and the table decorations were potted azaleas and ferns.

Dancing followed the banquet until a late hour.

Among those present were Mr. and Mrs. L. C. Bobbink, Mr. and Mrs. F. L. Atkins, Mr. and Mrs. C. H. Atkins, and Mr. and Mrs. A. H. Bobbink.

UNPACKING FROZEN SHIPMENTS.

Shipments of soft wooded plants at this season are occasionally received in a frozen condition; not entirely on account of insufficient protection in packing, but owing largely to unforeseen and severe weather changes.

When the thermometer suddenly drops below the zero point, as it did recently, plant shipments are apt to suffer while waiting on station platforms or during wagon delivery no matter how carefully packed, and a little judgment in unpacking will in most instances bring the plants out of a frozen condition with little or no injury.

The undersigned received during the recent severe spell a shipment which included geraniums of various types, fuchsias, begonias and other soft wooded subjects from pots; the ball of earth on practically every plant being frozen hard, the frost penetrating even to those in the center of the boxes. Although the shipment looked rather hopeless, the boxes were placed immediately in a cool shed with a temperature just above the freezing point and allowed to remain 48 hours, thawing out gradually. The plants were then unpacked, placed in a slightly higher temperature, kept well shaded, and were soon in condition to be potted.

The loss on the entire shipment did not exceed 5 per cent, the begonias suffered no more injury than the geraniums and the plants are now well established and in a growing condition. A. N. Pierson, Inc.

One hundred rats a month is a record for a trap in one establishment, but that is the number caught in a livery stable in Scranton, Pa., in one of the traps invented by H. D. Swarts of that city. See ad on page 172 this issue.

From the Royal Horticultural Society, Westminster, S. W., Sept. 9, 1913. "Your Gladiolus 'Peace' is now in full flower at Wisley and is a very beautiful variety, strong and doing well."

From Messrs. Dobbie & Co., Edinburgh, Scotland, Sept. 8th, 1913. "With reference to the bulbs of Gladiolus 'Peace,' we have to say that these have turned out true and very fine indeed."

From Messrs. Warnaar & Co., Sassenheim, Holland, Sept. 15, 1913. "We beg to inform you that we were awarded with a Certificate of Merit by the Dutch Bulb Growers Association meeting in Haarlem for Gladiolus 'Peace.' We have very fine blooms of it and think it a very good bloom for late work. It grows very strong and flowers freely."

From Wilhelm Pfitzer, Stuttgart, Germany, Sept. 10th, 1913. "The growth of 'Peace' is robust and the foliage has a remarkably dark green color. The flowers are large and the spikes are producing a good impression. Taking altogether, 'Peace' is a remarkable variety."

Gude Brothers Co.

FLORISTS & FLORAL DECORATIONS.

1214 F ST. NORTHWEST.

WASHINGTON, D.C. June 28, 1913.

Mr. Arthur Cowee,

Berlin, N.Y.

Dear Sir:

We are returning by express today the Gladiolus bulbs, the variety Peace, which you so kindly gave to try for forcing indoors. We are pleased to state that they beat anything for growing that we have ever seen. They came in more than a week ahead of other very early, earlier than the other varieties and the spikes were so fine that we sent for a photographer to photograph the first ones, but through some mishap we never succeeded in getting a good photograph of them. They were without exception the finest spikes of gladiolus that we have ever seen any place or any where, and for indoor growing they seem to be a perfect success. We remain,

Very truly yours,

Gude Bros. Co.

NOW IS THE TIME TO PLANT "PEACE" FOR FORCING

Send for Illustrated Catalog containing the cream of the World's Best.

ARTHUR COWEE, *Gladiolus Specialist*

MEADOWVALE FARMS BERLIN, N. Y.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Chicago Seed Notes.

The Holland bulb firms are well represented now in Chicago. Buyers are inquiring closely into the causes of the failure of so many of the bulbs now being forced. The Holland men attribute the trouble to the bulbs being heated in transit. They say they are never troubled with bulbs coming blind in Europe and that the bulbs were in excellent condition when shipped. The representative of one of the prominent houses claims to have a contract with the Holland-American line to have all their bulbs stowed below the water line on the steamer as the stock is on the water in August or September and the temperature above the water line often reaches 150 degrees, which blasts the flower buds. Some contracts between the shipper and the boat lines contain an indemnity clause for twice the price of the bulbs in case of injury from heating in transit. This will reimburse the Hollander for the bulbs and the American buyers for duty, freight and cost of forcing—but leaves the florist with no stock for his customers.

CATALOGUES RECEIVED.

Atlantic Nursery Co., Inc., Berlin, Md.—Trade Price List for Fall 1913 and Spring 1914.

Alfred Mitting, Holland, Mich.—Catalogue of Berries grown by a Berry Specialist. An excellent convincer.

Martin Cohanzie, Painesville, O.—Catalogue of Field Grown Hardy Herbaceous Plants and Ornamental Shrubs.

D. V. Burrell, Rocky Ford, Colo.—1914 Seeds. Burrell's Select Rust-Resistant Rocky Ford Canteloupe is the leading specialty.

Colorado Seed and Nursery Company, Denver, Colo.—General Catalogue and Cultural Guide for 1914. Considerable individuality in this catalogue.

W. E. Marshall & Co., New York.—Descriptive Catalogue of Shrubs, Trees and Herbaceous Plants. In typography and arrangement a well-made catalogue. Contents good.

J. G. Harrison & Sons, Berlin, Md.—Catalogue and Price List of Fruit and ornamental Nursery Stock. A very handsome publication with several colored plates and attractive covers.

Kelly Bros. Nurseries, Dansville, N. Y.—Catalogue of Trees Direct from Grower to Planter. With a cover illustration of Elberta peaches so true to life that one's mouth waters as you look at them.

George S. Woodruff, Independence, Ia.—"The Modern Gladiolus." A catalogue of the best strains and varieties, home grown. Also wholesale price list of leading commercial varieties, for growers only.

Maloney Bros. & Wells Company, Dansville, N. Y.—"Guaranteed True to Name Trees, Direct from Nursery to You." A first-rate head line. And there's a handsome cover picture of luscious cherries in natural colors.

The Haerens Co., Somergem, Belgium—Illustrated Price List, 1914. For the Trade Only. Colored-plate of Azalea Haere Will's Pink Pearl, a sport of Vervæneana and which won first prize at the International Exhibition of Ghent in 1913.

H. F. Michell Co., Phila., Pa.—Wholesale Price List of Seeds, Bulbs, Tools, Fertilizers, etc. Handsome Cover Illustration of the New Zonal Bedding Geranium Helen Mitchell in natural colors. A very helpful catalogue of the really good things for the trade, well displayed and illustrated.

Henry F. Michell Co., Philadelphia, Pa.—Seed Book for 1914. A 224-page catalogue covering every department of vegetable and flower seeds, implements and sundries very completely. Colored plate of hardy phloxes and on front cover a combination arrangement in colors, of Buddleia variabilis magnifica and Dahlia Pride of Andalusia. There is a large novelty and specialty list and the book is profusely illustrated throughout.

PUBLICATIONS RECEIVED.

Sweet Peas Up-to-Date. Published by W. Atlee Burpee & Co., Phila., Pa.—This is the 1914 edition of this indispensable manual, by K. W. Kerr, from observations made at Fordhook Farms trial grounds during the past six seasons and previous experience. Every grower of sweet peas will need a copy of this standard publication.

The Horticultural Directory and Year Book for 1914, published by the Journal of Horticulture and Poultry Office, London, has come to hand in good time. This useful volume is in its 55th year and is indispensable to anyone seeking to do business in the British Isles or on the Continent of Europe. The book this year contains 648 pages containing besides lists of nurserymen, florists, gardeners, private estates, etc., an immense amount of information on subjects appertaining to commercial horticulture. It is right up-to-date and everybody should have a copy of this new edition.

New Crop Seeds

FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.
STAMFORD, CONN.

QUALITY SEED BULB PLANT
SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

MICHELL'S NEW CROP FLOWER SEEDS

VERBENA SEED
Michell's Mammoth Fancy Strain.

	Tr. Pkt.	Oz.
Mammoth Fancy, Blue	$0.30	$1.25
" " Pink	.30	1.25
" " Scarlet	.30	1.25
" " Striped	.30	1.25
" " White	.30	1.25
" " Mixed	.30	1.00

SALVIA SEED

Michell's Scarlet Glow	$0.50	$3.50
Bonfire	.40	2.00
Splendens	.25	1.00
Zurich	.50	4.00

ASTER SEED
Queen of the Market

Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choice Mixed	.20	.65

ASPARAGUS PLUMOSUS NANUS
Northern Greenhouse Grown Seed.
500 Seed....$1.75 5,000 Seeds..$15.00
1,000 " .... 3.25 10,000 " .. 29.00
Special prices on larger quantities.

Send for Our Latest Wholesale Catalogue of Seeds, Bulbs, Plants and Florists' Supplies if you haven't received a copy.

HENRY F. MICHELL CO.
Growers and Importers
518 Market Street, PHILADELPHIA, PA.

Kelway & Son
Wholesale Growers to the Trade of
Choice Stocks of
GARDEN, FARM
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FLOWER SEEDS
Please Write Now for Our
CONTRACT PRICES
Langport, Eng.

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FOR FLORISTS
Ask for 1913 Catalogues
Joseph Breck & Sons Corp.
Seedsmen
47-54 No Market St., BOSTON, MASS.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y
California Seed Growers Association, Inc.
Growers For Wholesale Dealers
SAN JOSE CALIFORNIA

GARDEN SEED
BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to
S. D. WOODRUFF & SONS 82 Dey St., NEW YORK
and ORANGE, CONN.

SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

BURNETT BROS.

SEEDSMEN

98 Chambers St., NEW YORK

HIGHEST GRADE SEEDS — FOTTLER FISKE RAWSON CO. — BOSTON

SEEDS For Immediate Sowing

Stocks Boston Flower Market

Unsurpassed for the largest percentage of double flowers

We have all the colors. Trade packet.....60c.; oz., $1.00
In pure white. Trade packet.....75c.; oz., 5.00

SWEET PEAS—All the leading forcing varieties. ASTERS—The latest and newest novelties. All the standard and well-tried sorts. LILY OF THE VALLEY—From our own cold-storage plant all the year round.

Our trade list ready to mail.

FOTTLER-FISKE RAWSON CO. The Seed Store, Faneuil Hall Square BOSTON

WILSON'S SEEDS SOLD IN NEWARK WILL GROW ANYWHERE

We have arranged for our very special strains of

FLOWER SEEDS FOR FLORISTS

Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.

J. J. WILSON SEED CO., Inc., 79 Orange St., Newark, N. J.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

COLD STORAGE VALLEY

OF FINEST QUALITY **For Early and Late Forcing**

IN CASES OF 1000, 500 AND 250 PIPS, AT $16.00 PER 1000
ALL EXPENSES PAID
TERMS: 30 DAYS NET, OR 3 PER CENT DISCOUNT FOR CASH WITH ORDER

Corp. of Chas. F. Meyer, 99 Warren St., New York

Commercial Sweet Pea Seed

of my original **Winter**, also **Summer**, Varieties, by the ounce or ton. 3,000 lbs. surplus of Nora Unwin, Gladys Unwin, Frank Dolby, Countess Spencer, Orange Spencer, King Edward Spencer, and some small lots of summer and winter Grandifloras.

Ask for special low prices on 100 lb. lots.

ANT. C. ZVOLANEK

Sweet Pea Ranch LOMPOC, CALIF.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

Onion Seed

Write us for price on both globe and flat varieties. We are also quoting Onion Sets.

Schilder Bros., CHILLICOTHE, OHIO

NEW CROP Flower Seeds

ASPARAGUS PLUMOSUS NANUS
Greenhouse grown—per 100 seeds $ .50
" " " 1000 " 4.00

ASTER
Crego, white per oz .... $ .75
" delicate pink " ... .75
Also all other varieties.

BEGONIA
Gracilis Luminosa, per packet.....$ .25
Semperflorens Vernon, per oz..... 4.00

CINERARIA
Maritima Candidissima, per oz ... $ .20
" " per lb..... 2.00

PANSY
Thorburn Superb Mixture, per oz..$4.00

SALVIA
Splendens per oz..... $1.25
Bonfire " 2.00
Early Dwarf Zurich " 4.00

VINCA
Alba, pure white, per oz.....$ .50
Rosea " ..... .45
" Alba " ..... .50
Mixed " ..... .45

SPIRAEA

	100	1000
Japonica	$3.00	$25.00

LILIUM

	100
L. Longiflorum, G. S.	$8.00

LILY OF THE VALLEY

Prices on Application.

OUR FLORIST'S CATALOG IS READY.
Send a postal for your copy.

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"The most reliable seeds"
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SHAMROCK. TRUE IRISH, PER OZ., $1.00.

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SWEET PEA SEED

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Artistic Designs . . .
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We Will Take Good Care Of All Your Orders
IN WISCONSIN
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Cor. Michigan Ave. and 31st St.,
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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
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Elgin, Ill.—Mrs. Geo. Souster.

Philadelphia, Pa.—Frank Polites, Subway.

Portland, Ore.—Niklas & Son, 403 Morrison street.

Albany, N. Y.—H. E. Van Wie, 121 North Boulevard.

Elyria, O.—Smallwood & McLaughlin, Bowers' Drug Store.

St. Paul, Minn.—Mrs. Henry A. Boardman, The Saint Paul.

New York City.—Siebrecht & Son, Hotel Buckingham, 619 Fifth avenue.

STEAMER DEPARTURES

Allan.

Pretorian, Boston-Glasgow...Feb. 5

American.

New York, N. Y.-S'hampton..Feb. 6
St. Paul, N. Y.-S'hampton....Feb. 13

Atlantic Transport.

Minneapolis, N. Y.-London...Feb. 14

Cunard.

Carmania, N. Y.-Liverpool....Feb. 7
Ascania, Montreal-London....Feb. 7
Carmania, N. Y.-Liverpool....Feb. 4

French.

Rochambeau, N. Y.-Havre ...Feb. 4
France, N. Y.-Havre.....Feb. 4

Hamburg-American.

Pretoria, N. Y.-Hamburg.....Feb. 5
Rhaetia, Boston- Hamburg...Feb. 5

Leyland.

Bohemian, Boston-Liverpool..Feb. 7
Winifredian, Boston-Liverp'l.Feb. 14

North German Lloyd.

Bremen, N. Y.-Bremen.....Feb. 10
Koenig Albert, N. Y.-Medit'n..Feb. 14

Red Star.

Kroonland, N. Y.-Antwerp...Feb. 4
Finland, N. Y.-Antwerp.....Feb. 11

White Star.

Olympic, N. Y.-S'hampton....Feb. 4
Cymric, N. Y.-Liverpool.....Feb. 5
Baltic, N. Y.-Liverpool.....Feb. 12

NEW MEMBERS FLORISTS' TELEGRAPH DELIVERY.

The following Florists have joined The Florists Telegraph Delivery:

W. C. Gloeckner, 97 State St., Albany, N. Y.

A. W. Smith Co., Keenan Bldg., Pittsburgh, Pa.

Mrs. Cora E. Gove, 184 Main St., Burlington, Vt.

The Franklin Park Floral Co., 1335 Fair Ave., Columbus, Ohio.

ALBERT POCHELON, Secy. F. T. D.

Rochester, N. Y.—J. B. Keller & Sons, Salter Brothers, J. C. Wilson, Boucher and Henry P. Neun have announced their intentions to close their stores at 7 o'clock Saturday nights.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
—Bloomingdale's—
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
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Or OUT-GOING STEAMERS
Write or Telegraph
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Telephone 1552-1553 Columbus

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FLORIST
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FLOWER DELIVERIES FOR ALBANY AND VICINITY
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Send flower orders for delivery in Boston and all New England points to
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770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

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JOY FLORAL COMPANY
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ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
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ST. LOUIS, MO.
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The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
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FLORISTS
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WASHINGTON, D.C.
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GUDE'S
Member Florists' Telegraph Delivery

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

BUSINESS TROUBLES.

J. C. Levenson, 478 Boylston St., Boston, busted.

Fred D. Green, of Farmville, Va., a nurseryman and farmer, filed a voluntary petition in bankruptcy in the United States District Court on January 13. He declared liabilities of $26,499.10, more than one-half of which are secured by collateral.

A petition in bankruptcy has been filed against Mary W. Giatras, florist, at No. 238 Columbus avenue, New York, by these creditors: Growers Cut Flower Co., $1,745; Gerard Dreyer, $99, and Herman Weiss, $15. It was alleged that she permitted Schloss Bros. to obtain a judgment, under which her stock, safe, fixtures, etc., were sold out on Jan. 16.

Red Bank, N. J.—Miss Hartgen has closed up her flower shop here. The store fixtures were bought by Oscar Hesse, Jr.

ORDERS FOR
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WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
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Penn the Florist
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Transfer your orders for flower or plant deliveries to
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Order Your Flowers for delivery in this section from the
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BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

An unusually well attended meeting of this society was held Jan. 27. Work on the schedule for the June show was the main business, and the offer of many special prizes were received from horticultural firms, including the following: Joseph Breck & Sons, for tuberous begonias; J. M. Thorburn Co., vegetables; T. J. Grey Co., vegetables; James Carter Co., gloxinias; Bobbink & Atkins, roses; A. N. Pierson, roses; W. B. Scott, annual plants. The members of the Newport Garden Association and summer colony are also contributing many liberal prizes, which when added the the regular list of the Horticultural Society will make a very attractive schedule. This show, which is dated for June 24 and 25, will be held under the auspices of the Newport Garden Association and the Newport Horticultural Society as last year, and present indications point to a much more extensive display than conditions permitted last year. An ideal place for holding the show is now almost assured. A part of the estate of ex-Senator G. P. Wetmore, on the corner of Bellevue and Le Roy avenues is the place under consideration, and the Garden Association have promised to provide suitable protection for all classes of exhibits.

A. MacLellan, A. S. Meikle and secretary Wm. Gray were appointed a committee to work with members of the Garden Association in making arrangements for the show.

At this meeting President MacKay exhibited two vases of exceptionally well grown stocks "Beauty of Nice" to which a cultural certificate was awarded.

J. ROBERTSON.

CONNECTICUT HORTICULTURAL SOCIETY.

Malacoides night was observed by the society on January 23rd, President Huss exhibiting three plants: one white, one pink, and the other a rose color. Alfred Cebelius showed six plants each of Cineraria grandiflora and Cineraria Boddington, the latter being cactus flowered, of a delicate pink color. A first-class certificate was awarded to each exhibit. Mr. Cebelius stated that the seed of the cineraria was sown about the 20th of July, and that they had been given nothing but compost up to a few weeks ago, when he commenced giving them liquid manure.

President Huss exhibited ferns, showing different stages of growth from the time the seed first sprouts and onward. The secretary read the paper President Huss delivered in New York City recently, when he exhibited a miniature greenhouse showing the various stages of growth of ferns. Mr. William H. MacKenzie advocated decorating with Primula malacoides and with white and pink Killarney roses, stating that the combination is very pleasing.

ALFRED DIXON, Sec.

HORTICULTURAL SOCIETY OF NEW YORK.

At the exhibition of the Horticultural Society of New York, on January 17, Max Schling showed a floral basket and two bouquets of exceptional beauty and was awarded a diploma. A "special" was given to A. N. Pierson for the new rose Hadley, and also to Lager & Hurrell for a fine collection of orchid blooms. J. P. Mossman, gardener for Clement Moore, A. J. Manda gardener for Mrs. H. I. Pratt, J. W. Goodier gardener for C. S. Roebling, W. H. Waite gardener for S. Untermyer, J. T. Burns gardener for Miss C. A. Bliss, R. Hughes gardener for J. B. MacDonald, Howard Nichols gardener for J. B. Trevor and J. Canning gardener for A. Lewisohn, were the winners in the various plant and flower classes provided for in the schedule. Orchids and carnations were the leading features.

ESSEX COUNTY FLORISTS' CLUB.

The regular monthly meeting of the Essex County (N. J.) Florists' Club was held on Thursday evening, Jan. 15th, at the Kreuger Auditorium, Belmont avenue. The attendance was good, almost the entire membership being present. Two new members were elected and after the business meeting a fine social evening was enjoyed. The next meeting will be held on Feb. 19th. It will be Exhibition Night and the committee expects to have a fine display, as a good many growers have made arrangements to exhibit. Any grower having anything to show at this meeting will get all information from J. Rassbach, of the Exhibition Committee, 23 Broad St., Bloomfield, N. J.

JOHN CROSSLEY, Sec.,
39 Belleville Ave., Newark, N. J.

AMERICAN ROSE SOCIETY.

The first entry to be made for an exhibit of roses is by Anton Schultheis of College Point, L. I., New York.

The prize list has been revised and added to. The Mrs. Hubbard gold medal for best new rose of American origin brought out during the past five years, will be an important event to be decided.

There is likely to be a larger number of exhibitors than last year, if inquiry regarding space position, prizes and dates of exhibits are any guide.

BENJAMIN HAMMOND, Sec.

Club and Society Notes.

A movement is on foot to organize a strong horticultural society for Hampden County, Mass. A preliminary meeting was held at Springfield on January 16.

A joint meeting and exhibition of the Illinois and Indiana State Florists' Associations will be held at Danville, Ill., on March 9-11. Preparations are being made for a very large event.

Eugene A. Appleton of Providence was elected president of the Rhode Island Horticultural Society at the annual meeting held on January 21 in the lecture room of the Providence Public Library. Mr. Appleton, one of the leading florists of Providence, succeeds Thomas Hope, for the past three years president of the Society. Mr.

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
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And Neighboring Towns
Are Thoroughly Covered by
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STORES IN
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We cover the territory between
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FLORIST
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WASHINGTON, D. C.

F. R. PIERSON CO.
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STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
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HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
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A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	$2.50 per doz.		4	24 inches high,	$5.00 per doz.	
2	15 " "	3.50 " "		5	30 " "	6.50 " "	
3	18 " "	4.00 " "		6	36 " "	9.00 " "	

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

Hope also served four years as vice-president, and he declined a renomination.

The Danville Florists' Club was organized Tuesday evening, Jan. 13, at the store of Smith Bros., Danville, Ill. The election of officers resulted as follows: President, H. E. Smith; vice-president, Peter Britz; treasurer, Chas. Walker; secretary, Joseph Smith.

The Retail Florists' Association, of St. Louis, held its regular monthly meeting on Monday, January 19. The following officers were nominated for offices: Harry Young, president; Theo. Miller, vice-president; A. Gernious, secretary; F. H. Weber, treasurer. The election takes place at the next meeting. Ex-President Sanders resigned as active member and was elected an honorary member.

The County Growers' Association of St. Louis will hold its meeting next week, Wednesday, February 4, at the usual place. A large attendance is looked for.

CHICAGO NOTES.

One of the handsomest stores in all Chicago is the north side Schiller store, in that fashionable quarter of the city, at 4509 Broadway, where the intersection of Kenmore makes an acute angle which is ideal in this case. With windows on both streets the appearance at night is that of flowers and blooming plants almost in the open and with the brilliant lights, the handsome equipment of the store shows off to best advantage. This store and the one on West Madison street speak well for the executive ability and far sightedness of Geo. Asmus, the business manager for many years, and the several members of the Schiller family actively engaged in the work.

Bulb Situation.

The injury to the tulip bulbs last summer is daily becoming more apparent as the time for blooming comes on. Among the early varieties so far, whole crops of Proserpine have come blind and Le Matelas so far are not promising well. Just what the result will be with the later varieties is hard to tell, but the loss in Chicago will foot up large. One grower, who had forty cases for cut flowers, reports everything coming blind and says he will not waste space and effort by bringing any more of them in.

Visitors—Martin Smith, Danville, Ill.; George Vatter, Marinette, Wis.; Paul Berkowitz of H. Bayersdorfer & Co., Phila. Pa.; Chas Schwake, New York

WASHINGTON NOTES.

Fred H. Kramer has an interesting window display at his store on F street. In the center of the window is an old-fashioned spinning wheel and surrounding it is a large quantity of miniatures. A rocky woodland scene and quantities of real cotton blossoms complete the display which is attracting widespread attention.

A well thought-out plan to take advantages of the great natural beauty of Rock Creek Park, by making it the foundation for a great national arboretum and "a greater botanic garden," is about ready to be presented to Congress, following conferences between Assistant Secretary of Agriculture Galloway, the District Commissioners, army engineers and members of the joint committee on Library.

William F. Gude, the national representative of the S. A. F. and O. H., in conversation with the HORTICULTURE correspondent, states that there seems to be some little misunderstanding with respect to the bill recently introduced in Congress providing for the appropriation of $50,000 for erecting a monument to the late William R. Smith. It seems to be the opinion of all that this will be something in the way of a stone but there is absolutely nothing in the bill to give that impression. "A monument," said Mr. Gude, "is anything that perpetuates the memory of a person or event, according to Webster, and our monument may take the form of a beautiful garden, a library, a building to be the home of the S. A. F. and O. H., or anything else along that line. What we want is to have the bill passed and then a committee will be appointed and florists will be asked to serve thereon. Many things have been suggested but the time is not yet ripe for the making of permanent plans. What is needed now is the support of every florist and society in the pushing of this bill, after that we will have something to say."

Visitors—Joseph Goudy, with H. A. Dreer, Philadelphia, Pa.; Robert Schoch, with M. Rice Co., Philadelphia, Pa.; Joseph Heacock, Wyncote, Pa.; J. L. Towner, with Griffith & Turner Co., Baltimore, Md.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS' SUPPLIES

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THE Florists' Supply House of America

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UNITED ICE MACHINES

For Florists and Greenhouses. Hundreds in successful stores everywhere. Let us show you their economy. Ask for Catalog X1.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

CINCINNATI NOTES.

Advices from Middletown, Ohio, state Geo. Beckman has withdrawn from the Busy Bee Floral Co.

The Cincinnati delegation to the Cleveland meeting this week comprises, Mrs. and Mrs. J. A. Peterson, Mr. and Mrs. C. E. Critchell, Gus Adrian, Max Rudolph, R. Witterstaetter and Wm. Murphy.

Visitors—A. J. Mueller, New York; A. M. Sanders, of Poehlmann Bros.; Phil Valk, representing Geo. Borgfeldt, New York City; Wm. Gardner, mgr. of P. J. Olinger's greenhouses, New Castle, Ind., and Wm. Rodgers, mgr. of the Miami Floral Co., Dayton, Ohio.

BUDDLEIA ASIATICA.

So many inquiries have come in regarding this beautiful winter flowering novelty since it was illustrated in our issue of January 17, that we asked William Anderson, who grew the plant shown in the illustration, for some notes on its culture and no doubt our readers will be interested in Mr. Anderson's reply. He says:

"This particular plant was from a cutting taken in August, 1912; so that the plant is about 16 months old. It is easily grown and if pinched during the summer until September 1st can be had in flower for Christmas grown in a temperature of 55 to 60; and, I believe, if grown cooler successional batches could be brought in up until Easter."

Buddleia asiatica is one of the Wilson collections from the wilds of China. It has been given the name of the "White Flowered Winter Lilac." Every shoot terminates in a slender arching raceme of deliciously fragrant flowers, very useful for cut-flower purposes.

GARDENIAS

$1.50—$4.00 Doz.

We have quantity as well as quality, and in large lots we can quote special prices. All grades are perfect flowers. The difference is in the size of flowers and length of stem.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts.. **PHILADELPHIA**

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

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want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

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Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the

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Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI January 26	CHICAGO January 26	BUFFALO January 26	PITTSBURG January 26
Am. Beauty, Special	35.00 to 40.00	35.00 to 40.00	60.00 to 75.00	..... to 60.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 30.00	40.00 to 50.00	40.00 to 50.00
" " No. 1	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Killarney, Extra	10.00 to 15.00	12.00 to 20.00	15.00 to 20.00	15.00 to 18.00
" Ordinary	4.00 to 8.00	6.00 to 10.00	4.00 to 6.00	6.00 to 12.00
Richmond, Hillingdon, Extra	10.00 to 15.00	10.00 to 15.00	8.00 to 10.00	10.00 to 15.00
" Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00 to 10.00	8.00 to 10.00	15.00 to 20.00	8.00 to 12.00
" " " " Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to 20.00	. to	..... to ... ..
Carnations, Fancy	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Cattleyas	35.00 to 50.00	35.00 to 50.00	25.00 to 35.00	35.00 to 40.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 12.50	10.00 to 12.00	..... to 15.00
Callas	8.00 to 12.50	10.00 to 12.00	10.00 to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	3.00 to 4.00	3.00 to 4.00	..... to 3.00
Freesias	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00
Daffodils	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	..... to 4.00
Tulips	4.00 to 5.00	2.00 to 5.00	3.00 to 4.00	..... to 4.00
Violets	.75 to 1.00	1.00 to 1.50	.60 to .75	..... to .75
Mignonette	5.00 to 6.00	..... to	2.00 to 5.00	4.00 to 6.00
Daises	1.00 to 1.50	..... to	1.00 to 1.25	..... to 3.00
Sweet Peas	1.00 to 1.50	1.25 to 2.50	.50 to 1.00	.50 to 1.50
Gardenias	20.00 to 25.00	25.00 to 30.00	..... to	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	12.50 to 15.00	12.00 to 15.00	..... to 15.00	..... to 15.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00	30.00 to 35.00
" " & Spren. (100 bchs.)	15.00 to 50.00	25.00 to 50.00	25.00 to 35.00	30.00 to 35.00

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Wholesale Florists

RICHMOND, IND.

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Flower Market Reports

BOSTON Trade in this market has shown little if any improvement over last week although it has been brisk at times, it falls flat at others. Roses are still scarce while carnations are in fine condition and the supply fairly good. Violets are plentiful as also lily of the valley. Cattleyas and sweet peas can be had in any quantity. Yellow jonquils are in good demand and the supply is good.

BUFFALO The market, although gradually improved, has experienced no heavy over-supply the past week. Roses are still scarce, especially the medium and short grade. There have been sufficient carnations to help out. Many shipments of carnations are lacking in quality and there are too many weak stemmed and splits. Lilies have shortened up and the demand has been heavy. Beauties are also scarce. Bargain signs have been noticed, but these were on violets only. Other stock in fair supply.

CHICAGO The rose situation is simply this, that it is impossible to fill orders complete, regardless of price. The shortage is along all lines, but is felt more where demand is heaviest, in medium grades. This is naturally turning the trade to carnations, which toward the latter part of the week began to show signs of stiffening in price and diminishing in supply.

The market is receiving some fine butterfly sweet peas, which are picked up quickly. There is a good demand for longiflorum lilies and the supply is not large. American Beauties are showing the effect of a whole month, almost entirely without sunshine and the color and quality are not the best. A few extra fancy tulips of double yellow Coronne d'Or were sent in, but there were plenty of poorly grown, short stemmed tulips, that did not sell at all. A limited quantity of long Yellow Prince and a beautiful clear pink claimed by the grower to be a pink La Reine were quickly bought up. Paper whites are again selling well and lily of the valley is in good demand.

CINCINNATI Last week proved a good week. There was an active demand, and everything cleaned up easily at substantial prices. The supply was very limited, green goods being the only thing that was plentiful. Owing to the continued cloudy and dark weather, rose receipts decreased to a point that was about the minimum for this time of the year. An ordinarily good cut of carnations helped to make up for the deficiency in roses. Giganteum lilies which were plentiful also did their share in this work. Other miscellaneous lines, such as callas, narcissus, jonquils and the like enjoyed a good call. There was also a steady demand for the smaller flowers. Sweet peas sold well, most all of them were of excellent quality. One cut of single violets is very small. The doubles are in a fair supply and move nicely. Lily of the valley, orchids and primrose are offered in good quantities.



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Golden Spurs, very choice, $5.00 per 100; $40.00 per 1000.
Other Varieties, $1.00 per 100; $7.00 per 1000.
VALLEY. Special, $4.00 per 100. **Extra**, $3.00 per 100.
ORCHIDS. Cattleyas, best, $6.00 per doz.; $40.00 per 100. Medium, $4.00 per doz.; $25.00 per 100.
Dendrobium Formosum, $6.00 per doz.
Oncidium Splendidum, yellow, extra choice, per 100, $10.00, $12.50.
Mixed Orchids, $5.00, $10.00 and $15.00 boxes.
GARDENIAS. Special, $3.00 per doz.; $20.00 per 100. **Fancy**, $2.00 per doz.; $15.00 per 100.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON January 28			ST. LOUIS January 26			PHILA. January 26		
Roses									
Am. Beauty, Special	50.00	to	75.00	35.00	to	50.00	75.00	to	85.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	35.00	to	50.00
" " No. 1	10.00	to	15.00	10.00	to	12.50	6.00	to	25.00
Killarney, Extra	8.00	to	12.00	8.00	to	10.00	10.00	to	15.00
" Ordinary	5.00	to	6.00	4.00	to	6.00	5.00	to	8.00
Richmond, Hillingdon, Extra	8.00	to	12.00	8.00	to	10.00	10.00	to	15.00
" " Ordinary	5.00	to	6.00	4.00	to	6.00	5.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	12.00	8.00	to	10.00	10.00	to	15.00
" " " " Ordinary	4.00	to	6.00	4.00	to	6.00	4.00	to	8.00
Russell, Shawyer	15.00	to	20.00	.....	to	.....	8.00	to	35.00
Carnations, Fancy	3.00	to	4.00	3.00	to	4.00	5.00	to	6.00
" Ordinary	1.50	to	2.00	1.00	to	2.00	3.00	to	4.00
Cattleyas	25.00	to	50.00	40.00	to	50.00	25.00	to	50.00
Lilies, Longiflorum	10.00	to	12.00	10.00	to	12.50	12.00	to	15.00
Callas	.....	to	12.00	10.00	to	12.50	12.00	to	15.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	3.00	to	4.00	2.00	to	3.00
Freesias	2.00	to	3.00	3.00	to	4.00	4.00	to	6.00
Daffodils	2.00	to	5.00	4.00	to	5.00	4.00	to	5.00
Tulips	2.00	to	4.00	4.00	to	5.00	3.00	to	5.00
Violets	.50	to	.75	.50	to	1.00	.75	to	1.00
Mignonette	6.00	to	8.00	4.00	to	8.00	3.00	to	6.00
Daisies	.....	to	2.00	.....	to	.....	2.00	to	3.00
Sweet Peas	.75	to	2.00	.50	to	1.00	.50	to	2.00
Gardenias	15.00	to	25.00	.....	to	.....	8.00	to	25.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings 100	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	15.00	to	25.00	15.00	to	25.00	35.00	to	50.00

NEW YORK There is no particular change in business. Some people claim it is dull, but others do not find it so. American beauties are scarce, selling for 75c. and in some cases $1.00. Roses as a general rule are scarce and lily of the valley is plentiful. Lilac sells for $1.50 per bunch. Bulb stock is clearing out nicely. If there is a glut of anything, it is cattleyas and gardenias and these are most magnificent in quality but are being sold at ridiculously low figures. Carnations are meeting with good demand. Lilies are not quite so plentiful; some especially long stemmed lilies are fetching $15.00 per hundred. There is the usual supply of freesia, myosotis, daisies and other seasonable flowers in market.

PHILADELPHIA Very fair week. Prices held firm with upward tendency. The demand was good all along the line and nearly everything was on the scarce side except cattleyas, lily of the valley and daffodils. All roses scarce, especially in the lower and medium grades. Special Beauties jumped a notch. Carnations stiffened up considerably, notwithstanding that there was a good supply of very fine quality, and the clean-up was good, there being nothing left at the end of the week for the street gentlemen. The orchid market held about the same as week previous—plentiful and good quality. Oncidium splendidum is now in good form, so is Dendrobium Formosum, and Cattleya Percivaliana. Cypripediums are over. Violets are moving fairly well, but like lily of the valley the market on them is not very brisk. Gardenias also move out fairly well, although it seems as if the popularity of this flower is rather less than what it has been the past few seasons. As already noted, daffodils are rather too many for the market to absorb and prices show a tendency to recede.

(Continued on page 166)

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Jan. 24 1914	First Half of Week beginning Jan. 26 1914
American Beauty, Special	40.00 to 60.00	75.00 to 100.00
" " Fancy and Extra	20.00 to 30.00	40.00 to 60.00
" " No. 1	10.00 to 15.00	10.00 to 30.00
Killarney, Extra	8.00 to 10.00	8.00 to 12.00
" Ordinary	3.00 to 8.00	4.00 to 8.00
Richmond, Hillingdon, Extra	6.00 to 12.00	8.00 to 12.00
" " Ordinary	3.00 to 6.00	4.00 to 8.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 15.00	8.00 to 15.00
" " " " Ordinary	3.00 to 8.00	4.00 to 8.00
Russell, Shawyer	12.00 to 20.00	4.00 to 15.00
Carnations, Fancy Grade	2.00 to 3.00	3.00 to 5.00
" Ordinary	1.50 to 2.00	2.00 to 3.00

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Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 165)

this is not very marked as yet. Golden spur and others have been added to the French Trumpet Majors. A few double von Sions are to be seen. Acacia pubescens has just made its annual bow to an admiring if select audience. Its cheerful golden smile is like a burst of sunshine in a gloomy world.

ST. LOUIS. There was good business at all the commission houses and the demand was more than the market could supply any day last week. Roses and carnations are not any too many. Violets are coming in much better than any time this season and the trade is more hopeful for next month, as St. Valentine's Day demand is always big. Sweet peas, too, are in good supply and the demand large. Bulb stock is not any too plentiful and the market cleans up almost daily on Paper Whites and Roman Hyacinths, also lily of the valley and lilacs.

WASHINGTON There is what might be termed a near-famine in the local flower market. Climatic conditions have been very unfavorable during the month. American Beauty roses are the hardest hit and it is almost impossible to pick up a dozen of these at times in any one place. The only variety in roses that is plentiful is Killarney. Carnations, instead of being a drug on the market as was expected some weeks ago, are bringing high prices. The double violets are rapidly being supplanted by the singles and the latter are now being received in extra fine condition. Harrisii lilies are in good demand. Orchids are much more plentiful. Gardenias, too, are plentiful.

NEWS NOTES.

Monroe & Reynolds is the name of a new wholesale florist firm at 111 W. 28th St., New York.

A new wholesale flower establishment is to be opened in Indianapolis, Ind., by A. Brandt.

James Coyle has removed from 101 West 28th street to 104, on the opposite side of the street.

PATENTS GRANTED.

1,084,414.. Flower-Box.. Mary Eger, Syracuse, N. Y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 24 1914			First Half of Week beginning Jan. 26 1914		
Cattleyas	20.00	to	50.00	10.00	to	40.00
Lilies, Longiflorum	6.00	to	10.00	10.00	to	15.00
Callas	12.00	to	15.00	10.00	to	12.00
Lily of the Valley	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	2.00	to	3.00
Freesias	2.00	to	3.00	2.00	to	3.00
Daffodils	2.00	to	5.00	3.00	to	4.00
Tulips	2.00	to	4.00	3.00	to	4.00
Violets	.50	to	.75	.50	to	.75
Mignonette	2.00	to	6.00	2.00	to	6.00
Daises	.....	to	2.00	2.00	to	3.00
Sweet Peas (per 100 bunches)	6.00	to	12.00	8.00	to	16.00
Gardenias	6.00	to	25.00	6.00	to	16.00
Adiantum	.50	to	.75	.50	to	.75
Smilax	8.00	to	12.00	8.00	to	12.00
Asparagus Plumosus, strings (per 100)	15.00	to	35.00	20.00	to	50.00
" " & Spren (100 bunches)	10.00	to	20.00	20.00	to	50.00

PHILADELPHIA NOTES.

J. Otto Thilow, of Dreer's, left on the 24th inst. for Jamaica and adjacent points. Object: recreation, investigation and potentiality. He is due back in Philadelphia February 12.

Frank Polites has opened a new branch at the ferry terminus of the subway. The fittings are refined and elegant and the show space is unusually ample for this kind of location. This bids well for a large and profitable outlet for cut flowers and plants.

S. S. Pennock, of the Pennock-Meehan Co., headed the Philadelphia delegation for the Cleveland convention of the A. C. S. He bore with him a showing of a new carnation Mrs. Akehurst, a fine pink, distinctively fringed, which looks like a future winner.

Among other evidences of progress in the Michell business this season is a new department specially devoted to advertising and promotion. It is in charge of E. A. Pettitt, who has been for the past five or six years with N. W. Ayer & Sons. Mr. Pettitt is young and bright and enthusiastic, brimming over with new ideas and thoroughly imbued with the axiom that advertising is the art of compelling appreciation of the goods one is offering. We extend greetings and welcome.

Philadelphia visitors: C. Percy Barnard, Northbrook, Pa.; Howard Thompson, Kennett Square, Pa.; L. B. Coddington, Murray Hill, N. J.; W. G. Badgley of Badgley, Reidel & Meyer, New York City; W. C. Langbridge of Jerome B. Rice Co., Cambridge, N. Y.; Jasper Lorimer, Bridgewater, Pa.; D. Cameron of Sander & Sons, St. Albans, England; James Harrigan, representing Peter Henderson & Co., New York City.

PERSONAL.

Among the private bequests of Elbridge Torrey of Dorchester, Mass., who died on Jan. 2, was the sum of $2500 to Frank Farrell, his gardener for many years.

W. A. Manda, South Orange, N. J., has just returned from England on the Majestic after the worst shaking-up at sea he ever experienced. He says that the horticultural part of the Anglo-American Exhibition will be an assured success.

John J. Hunter, formerly of the firm of Kennedy & Hunter, seedsmen of New York, has accepted a position as special traveling representative for the Consumers' Fertilizer Company of New York. Mr. Hunter has had many years of experience among the greenhouse men and florists, and is well known and popular with the trade. The Consumers' Fertilizer Company, which has an up-to-date factory at Farmingdale, N. J., is manufacturing, in addition to their regular grades of farm fertilizers, special fertilizers for greenhouse work, and Mr. Hunter will devote his energies chiefly to this end of the business, for which work he is particularly well qualified.

Boston visitors—Mart. Boks, Ghent, Belgium; E. M. Parmelee, representing J. H. Allen Seed Co., Sheboygan, Mich.; Walter Mott, representing Benj. Hammond, Beacon, N. Y.; Jas. McGregor, Dublin, N. H.

Editor of HORTICULTURE:

Dear Sir:—I enclose a postoffice order for one dollar for HORTICULTURE. Could not think of doing without it. The illustrations alone would be more than good value to say nothing of the feast of good things every week found in its pages. I read every page with interest; it could hardly be better.

Illinois, Jan. 22, 1914. J. S. F.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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For page see List of Advertisers.

Otto Heinecken, New York City.
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John McKenzie, No. Cambridge, Mass.
For page see List of Advertisers.

A. M. Davenport, Watertown, Mass.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
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McHutchison & Co., New York.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York.
For page see List of Advertisers.

Bay Trees and Box Trees, all sizes and prices. List on application.
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New Winter Blooming Begonia Florence Davenport.
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For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

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BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
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Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

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New Carnation, Pink Supreme.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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CYCLAMENS

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A. M. Davenport, Watertown, Mass.
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200,000 Giant Flowering Cyclamen Seedlings in six separate colors, our own grown strain. Seed only taken of Numberblossoms. From seed flats, August-sown, $2.50 per 100; $20.00 per 1000. Once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all packages. CHRIST. WINTERICH, Cyclamen Specialist, Defiance, O.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker. Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

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2000 S. A. Nutt, Rooted Cuttings, fine, $10.00 per 1000. 1000 Mme. Salleroi, 2½ in., $10.00 per 1000. Fine Pelargoniums, 2½ in., $3.00 per 100. C. W. CURTIS, Irondequoit, N. Y.

Extra strong 2¼-in. stock, ready for shift. S. A. Nutt, $18.00 per 1000; $2.00 per 100. Ricard, Viaud, Buchner, Poitevine, $20.00 per 1000; $2.25 per 100; 3-in., $2.50 per 100. Cash. Prompt shipment. QUAKER HILL NURSERIES, Monroe, N. Y.

GLADIOLUS

Bidwell & Fobes, Kinsman, Ohio.
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Planting stock of the finest Florists' Mixtures, $2.50 per 1000 up. Send for list. H. E. MEADER, Dover, N. H.

America, Extra Selected Bulbs, $15.00 per 1000. America, First Size Bulbs, $12.00 per 1000. America, Blooming Bulbs, $7.00 per 1000. America, Planting Bulbs, $2.50 per 1000. America, Bulblets, $2.50 per Peck; $10.00 per Bushel. BROOKLAND GARDENS, Woburn, Mass.

GLADIOLI.

America—Planting Stock, $2.00 per 1000 and up; fine stock—write. Bulblets—Taconic, large bright pink, $1.00 quart; $5.00 peck. Silver Trophy Sec. 2 light, 50c. quart; $2.25 peck. Meadowvale florists' light mixture, 75c. quart; $3.00 peck. Independence, 50c. quart (about 4000 to a quart). HOMER F. CHASE, R. 44, Lawrence, Mass.

GLASS

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

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Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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Hitchings & Co., New York City.

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Tobacco Stems, $1.00 hundred pounds. U. CUTLER RYERSON, 108 3d Ave., Newark, N. J.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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PAPER POTS AND DIRT BANDS

Square Paper Pots, 3-in., 5000, $3.90; 4-in., 5000, $7.25. Dirt Bands, 3-in., 5000, $3.00; 4-in., 5000, $4.50. Price list and samples free. ROCHELLE & SONS, Chester, New Jersey.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PETUNIAS

H. A. Dreer, Philadelphia, Pa.
Double Petunias.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIA PULCHERRIMA

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POTASH

German Kali Works, Inc., New York City.

POT HANGERS

Pot hangers, Kramer's, $1 doz., by exp., $1.25 by mail I. N. KRAMER & SONS, Cedar Rapids, Iowa.

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A. N. Pierson, Inc., Cromwell, Conn.
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Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

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The Right Seeds in the Right Place.
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Flower Seeds for Florists.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

Fottler, Fiske, Rawson Co., Boston, Mass.
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Felix & Dykhuis, Boskoop, Holland.
Send for Catalogue.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors —white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."

SNAPDRAGONS

New Winter-Flowering.
H. Huebner, Groton, Mass.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
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STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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VEGETABLE PLANTS

Bonny Best tomato plants, none better for forcing, grown from Stokes' reselected, $15.00 per lb. seed. Stocky, hardy, transplanted plants, ready for 3-in. pots, $1.25 per 100 by mail prepaid. S. C. WATTS, Curwensville, Pa.

VENTILATING APPARATUS

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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

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N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
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Welch Bros. Co., 226 Devonshire St.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
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Chicago

Peter Reinberg, 37 Randolph St.
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Chicago Carnation Co., 30 E. Randolph St.
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Poehlmann Bros. Co., Morton Grove, Ill.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
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New York

H. E. Froment, 57 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 49 West 28th St., N. Y.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 41 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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Frank Millang, 55-57 West 26th St.
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M. C. Ford, 121 West 28th St.
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B. S. Slinn, Jr., 55 and 57 West 26th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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WHOLESALE FLORISTS

Philadelphia—Continued

The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers in This Issue

CARNATION PEERLESS PINK.
Chicago Carnation Co., Chicago, Ill.
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CARNATION PRINCE EDWARD.
A. Begerow, Newark, N. J.
For page see List of Advertisers.

CHRYSANTHEMUMS AND UNROOTED CARNATION CUTTINGS.
Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers

FIVE NEW SINGLE CHRYSANTHEMUMS.
Frank P. Putnam, Lowell, Mass.
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FLOWERS BY TELEGRAPH.
"Quality Shop;" Stamford Seed & Nursery Co., Stamford, Conn.
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GLADIOLUS NIAGARA.
Bidwell & Fobes, Kinsman, Ohio
For page see List of Advertisers.

GLADIOLUS "PEACE."
Arthur Cowee, Berlin, N. Y.
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HOOSIER BEAUTY, THE RED ROSE FOR 1915.
P. Dorner & Sons Co., La Fayette, Ind., and The E. G. Hill Co., Richmond, Ind.
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IMP SOAP SPRAY.
Eastern Chemical Co., Boston, Mass.
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NEW CROP ASTER SEED.
Peter Henderson & Co., New York City.
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NEW CROP SEEDS.
Stamford Seed & Nursery Co., Stamford, Conn.
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SERVICE BUREAU OF THE NATIONAL ASSOCIATION OF GARDENERS.
M. C. Ebel, Sec., Madison, N. J.
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SINGLE DAFFODILS.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers

TUBEROUS ROOTED BEGONIAS—GLOXINIAS—FANCY LEAVED CALADIUMS.
Henry A. Dreer, Inc., Philadelphia, Pa.
For page see List of Advertisers

UNIVERSAL RAT AND MOUSE CATCHER.
H. D. Swarts, Scranton, Pa.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

GARDENERS WANTED—Man familiar with greenhouse plants and propagating; permanent position in Florida. Man for country place, employing one or two assistants; must be familiar with outside work; no glass. Man for small country place one man only—some house work. Man for greens keeper, country club; only single men need apply. State age, experience and salary wanted. CARL RUST PARKER, Landscape Architect, 910 Fidelity, Portland, Maine.

SITUATIONS WANTED

SITUATION WANTED—As Working-Foreman on Commercial, Public or Private Place, by February 15th or later, by good, practical, experienced grower and propagator of roses, carnations, mums, all cut flowers, pot and bedding plants, forcing for Easter and Christmas stock. Decorator, landscape gardener, good vegetable grower, etc. Capable of taking full charge. German, married, no children, 32 years' experience in Germany and America; honest, sober and steady; best of references. Please state particulars in first letter. Address "E. Y.," 814 Copeland St., East End, Pittsburgh, Pa.

FOR SALE

FOR SALE—Ten Miles from Boston

9 Acres of land, 3 greenhouses 20 x 200, 50-h. p. boiler, 7-room bungalow, all modern improvements, nearly new small stable, coal for season all in, everything in A-1 condition. Net income $3,000. Will sell for assessed value. Address "N," care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

NEWS NOTES.

Avondale, Pa.—Charles Snyder met with a loss of about $500 by the pipes of his greenhouse freezing.

Tonawanda, N. Y.—Max Groeber has purchased the Summey Greenhouses and store on Wheatfield street.

Salem, O.—Joseph E. Bonsall, who leased his greenhouses to V. A. Cowgill, has purchased the lease and will re-enter the business.

Washington, D. C.—Louis E. Hoover is now sole owner of the business of Mayberry & Hoover, who dissolved partnership last week.

8 Grape Vines, 6 Currant Bushes $1

All best 3 year old stock. If planted now or early spring will fruit next summer. Should ground be frozen we tell you how to protect and keep them dormant ready for early spring planting. Orders accepted now and forwarded at any future time if preferred. Grapes are Worden, Niagara, Iona, Concord, the best early mid-season and late varieties. Large cherry currants. Write for list of our **$1 Friend Makers**, consisting of all kinds of Fruit Trees, Berries and Roses.

Cultivate Horse-Radish Garden, Field or Farm.

Nothing as profitable. We tell you all about it. **The Landscape Garden Co., Newburgh, N. Y.**

Walter Mott's Notes by the Way

Westerly, R. I.

S. J. Reuter & Son are working up a supply of the rose Prince E. C. d'Arenberg, and from reports received will be pressed owing to the limited stock and large demand. Lady Ann Barrondell is the latest arrival. 'Tis a fine rose, a very vigorous grower and pleasing shade of pink.

Hadley, Mass.

The Montgomery Co. establishment has been visited of late by many prominent growers who are especially interested in the new rose Hadley, which in itself well repays the visitor, who sees it now at its best. Only Killarneys, Richmonds and Hadleys are grown here, and an excellent opportunity for comparison is offered by the two latter being grown in the same house. Hadley shows up superior in every point, more particularly in color and in foliage.

F. R. Pierson, accompanied by J. A. Fotheringham, were interested visitors, just previous to my visit.

Arrangements have been made for distribution of Hadley by A. N. Pierson owing to lack of proper facilities at home.

Springfield, Mass.

J. W. Adams Co. received awards for fruit and conifers at the exhibition of the Mass. State Fruit Association, held here during the past week, and which was a success in every respect.

The recent severe freeze will affect much stock that is established here, particularly California privet, of which a stock of forty thousand plants are believed to be affected. Shall know later.

Meacham & Haskett of the Posey Shop are increasing their clientage by advertising specials when stock is plentiful. Just at present 'tis the reverse.

Aitken makes a fine showing of the Mrs. Ward rose in yellow baskets and ribbon, and finds it a big seller.

Newport, R. I.

The Broadway Hardware Co. will soon reopen on the site of the Weaver Building, destroyed by fire some time since. A full line of garden stocks will be carried. T. J. Nolan, one of the partners, reports a satisfactory list of customers to be transferred to the new store.

Gibson Bros., now on Bellevue Ave., have things well shaped out since the partnership was dissolved and have plenty of business ahead.

It is rumored here that Carl Jurgens intends removing to Chicago to take up the growing of lily of the valley in that city.

St. Louis.—V. H. Morgan, a representative of Lord & Burnham Co., New York, was a caller last week. John Rosenkrantz & Son, of Heemsstede, Holland, bulb growers and nurserymen, have opened an office at Webster Grove.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package

MAKE THE OLD ORCHARD PAY EXPENSES WHILE YOU'RE STARTING THE NEW



POWER AND SPRAY PUMPS

OF ALL KINDS

A full line in stock at both our Boston and Providence stores—Send for Catalogue and special price list.

C. J. JAGER COMPANY

13-15 Custom House Street Boston 33 Canal Street, Providence, R. I.



Cleans a building of Rats and Mice in short time, keeps it cleaned, for it is always ready for use. Made of galvanized iron, can't get out of order, lasts for years. Large number can be caught daily. Go to Catcher mornings, remove device inside, which only takes few seconds, take out dead rats and mice, replace device, it is ready for another catch. Small piece cheese is used, doing away with poisons. Catcher is 18 inches high, 10 inches diameter. When rats pass device they die, no marks left on them. Catcher is always clean. One of these Catchers set in a livery stable in Scranton, Pa., caught over 100 rats in a month. One sent prepaid to any place in United States upon receipt of $3. Catcher, 8 in. high, for mice only, prepaid $1. On account of shipping charges being prepaid, remittance is requested with order.

H. D. SWARTS,
Inventor and Manufacturer, Scranton, Pa.

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.

APHICIDE POWDER

(FORMERLY THE FUMIGATING KIND)

KILLS ALL APHIS

$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.

WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU

If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.

THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:—

"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:—

"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—

"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass, writes:—

"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart $3.00 Per Gallon

(Special prices on large quantities).

For Sale by Seedsmen.

We Manufacture
APHINE, FUNGINE, SCALINE, and NIKOTIANA.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

DO IT NOW

Save your trees from scale. Use

SCALECIDE

5 Gals., $3.25

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.

CLARKSVILLE, TENN.

Imp Soap Spray

Effective one to thirty-two.

SINGLE GALLONS, $1.65

Sold by All Dealers.

EASTERN CHEMICAL COMPANY, - BOSTON

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - - BEVERLY, MASS.

FERTILIZERS

Tankage, $2.00; Sheep, $1.75; Bone, $2.00; Ashes, $1.50; Phosphate, $2.00; Limestone, $1.00; Blood, $4.00; Nitrate Soda, $4.00; Sulphate Potash, $3.50 per 100 lbs. Smallest quantity sold 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N.Y.

When writing to advertisers kindly mention HORTICULTURE.

Obituary

Mrs. Wilson.

Mrs. Wilson, mother of James S. Wilson of Des Moines, Ia., died at her home, 5082 Cabanne avenue, St. Louis, Mo., last week, aged 80 years. One daughter and two sons survive her.

C. D. Thayer.

Charles D. Thayer, one of the first men to engage in commercial flower growing in Worcester, Mass., 43 years ago, died on Saturday, January 24, aged 63 years, from heart disease. Mr. Thayer retired from business about two and a half years ago.

Isaac E. Coburn.

Isaac E. Coburn, well known for many years as a grower of fine pansies, died at his home in Everett, Mass., after an illness of several weeks, on Thursday, January 22, aged 71 years. Mr. Coburn was born in Weston, Mass., and removed to Everett in 1871. He was a frequent exhibitor at the shows of the Massachusetts Horticultural Society. He leaves two sons and a daughter.

GREENHOUSES BUILDING OR CONTEMPLATED.

Warren, Pa.—Lester Graham, one house.

Lebanon, Pa.—Hershey Park, conservatory.

Gilchrist, Ill.—Paulsen Bros., range of houses.

Libertyville, Ill.—J. E. Meredith, one house.

Edwardsville, Ill.—Fred Ammann, orchid house, 15x165.

North Milwaukee, Wis.—Grunewald Bros., range of houses.

Kirkwood, Mo.—W. J. Pilcher, Lord & Burnham house, 75x200.

Orange, Tex.—H. J. Luchter, one house, 18x75, palm house, 48x57.

Chicago, Ill. — Wm. Duntemann, three Garland houses, each 34x175.

Philadelphia, Pa.—The West Laurel Hill Cemetery Co., two houses, each

NEW CORPORATIONS.

Cleveland, O. — Burkhardt Floral Co., $10,000 capital stock.

Rochester, N. Y.—L. W. Hall Company, nurserymen, capital stock, $2,500.

Greenville, S. C.—Piedmont Plant Company, capital stock, $15,000. Incorporators, W. A. Bruce and R. P. Du Vernet.

Wilmington, Del.—Scientific Plant Company, general nursery business, capital stock, $25,000. Incorporators, Edward G. Cook, Anna L. Dorsey and Wm. M. Lupton.

Mobile, Ala.—Mobile Nursery Company. Capital stock $20,000. The officers are as follows: J. B. Dortch, president; F. R. Murray, vice-president; H. B. Crocker, secretary and treasurer.

KING IRON FRAME GREENHOUSES

Improved Flat Rafter

"All the Sunlight All Day"

That's what makes things grow, and that's what our improved

Flat Rafter Iron Frame
GREENHOUSE

gives you, without any sacrifice of strength. Simplified construction from foundation walls to eaves, ⅝ in. instead of ½ in. rafters, which allows us to reduce their depth from 3½ and 4 to 3 inches. Think of the morning and afternoon sunlight this saves.

It will pay you to write for Bulletin No. 46 right now.
Take advantage of our free information bureau.

KING CONSTRUCTION COMPANY
28 KING'S ROAD • NORTH TONAWANDA, N. Y

FIRES.

Zimple, La.—A small greenhouse of C. Porim was destroyed by fire last week.

Tuscarawas, O.—The greenhouses and heating plant of Daniel Affolter were damaged to the extent of $3000 on the morning of January 2d.

Westfield, Mass.—A greenhouse of Nicholas Brothers on Dennis street was badly damaged by fire Jan. 26th. Nearly all the glass was broken and the stock destroyed. Loss $2,000, partially covered by insurance.

Witmer, Pa.—The greenhouse of Elias Lefever was set on fire by the explosion of the boiler on Tuesday morning, January 13, causing a damage of about $300. Only a part of the house, which is 300 feet long, was damaged but many flowers and plants were destroyed.

Poughkeepsie, N. Y.—Fire believed to be the work of an incendiary, destroyed the handsome Bridgeman dwelling and a number of violet houses on the Ferncliffe estate of Vincent Astor at Rhinebeck on Friday, January 23, causing a loss estimated at $15,000. The dwelling and violet houses were recently purchased by Vincent Astor from F. W. Bridgeman. The dwelling was unoccupied, but the violet houses were leased by William Cook, a violet grower of Rhinebeck, and were stocked with plants.

For many years plans for erecting a Municipal Horticultural Building in Boston have been discussed but they have fallen through. One of the last things which Mayor Fitzgerald expects to do before giving up his office is to discuss plans for the erection of such a building. The approximate cost will be about $250,000.

A DASTARDLY CRIME.

Glasgow, Scotland, Jan. 24—A bomb outrage, believed by the police to have been carried out by militant suffragettes, today destroyed the extensive conservatory in the Glasgow Botanic Gardens known as the Kibble Crystal Palace. The great glass roofs and sides of the structure were blown into thousands of pieces. Many valuable plants were ruined.

A caretaker succeeded in severing the fuse of a second bomb just before the first one exploded. He had a narrow escape from losing his life.



DREER'S
Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS., Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and Export Trade

STANDARD FLOWER
POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.



When You Build a Greenhouse

Get a STEEL-FRAME one as built by us and you will never regret it. Our houses are the result of years of experience, and are built right and tight.

Bird Steel-Frame Greenhouse Co., Inc.

GENERAL SALES OFFICE.

15-17 West 38th Street, New York City

FOR **"POT LUCK"** TRY US...

HEWS STANDARD POTS

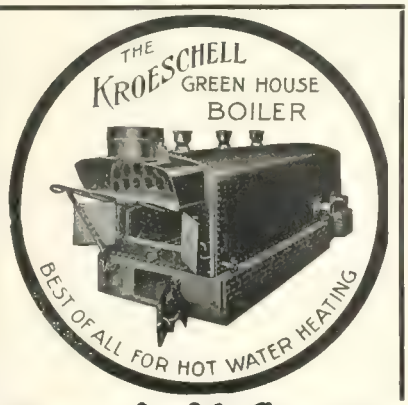
POT MAKERS FOR 140 YEARS — **WORLDS LARGEST MANUFACTURERS**

WRITE FOR CATALOGUE AND DISCOUNTS

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LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.



Kroeschell Bros. Co.

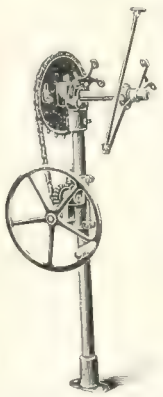
466 W. Erie Street CHICAGO

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

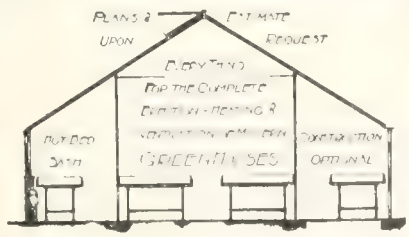
CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street, Philadelphia.



PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.



Evans 20th Century Arm

Will not twist the shipping [illegible] Uses the power of the [illegible] Sold only with Evans [illegible]

QUAKER CITY MACHINE CO.,
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass. For particulars address

John G. Esler, Sec'y Saddle River, N.J.

When writing to advertisers kindly mention HORTICULTURE.



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Vol. XIX FEBRUARY 7, 1914 No. 6



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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Abutilons

Now that we have plenty of bottom heat the spare room in the propagating sand should be utilized to the utmost in the rooting of cuttings of indispensable stock. This includes abutilons, a class of plants altogether too sparingly represented in florists' stock for their current local trade. There is hardly any purpose for which some one variety of abutilon could not be used. The semi-matured new growths root readily at this time of year and the treatment of abutilons in general differs but little from that of geraniums. When they are rooted they can be potted into small pots, using a compost of three parts fibrous soil to one of manure and if any leaf mold is handy use some of it. They should have a night temperature of about 55 degrees and from 65 to 70 degrees on sunny days. All are good and easily grown subjects for the greenhouse and bedding.

Calceolarias

Calceolarias should now be in their flowering pots. Use a rather light loam, not chopped or sifted too fine, with a fourth or fifth of thoroughly rotted manure. If the soil is heavy add sand to the manure. Some will be starting to push their flower spikes and these are better to be pinched which causes the plants to break freely and make much nicer flower heads. Short of actual freezing, the plants can hardly be grown too cool. Forty degrees at night is far better than 50 degrees, and in the lower temperatures the green aphis is far less troublesome. While a little winter sun will not harm, we prefer to grow them with a light shade even at this season. On clear morning we give a light spraying over. Those of the rugosa section are useful at Memorial Day. These should now have their last pinching and can go in their flowering pots. At no time must they be allowed to wilt, and, like the cineraria, they must never be overwatered. Avoid extremes both ways. Give mild fumigation every week.

Care of Mignonette

Now the days are beginning to lengthen out, the beds will take more water and they should have liquid manure which should, however, be employed sparingly, both as to strength and frequency of application; a warning worth heeding. To make these plants bloom freely from now on be careful not to have the roots in too wet or dry condition and guard against all extremes in temperature. Keep the night temperature as near 45 degrees as possible with about 10 to 15 degrees higher with sunshine. If the plants are in a vigorous condition they should have a top dressing of cow manure one part and new soil two parts, but don't be too generous with this mulch. A half-inch at a time, and then every now and then as they need it will be better than to indulge in one heavy application. Give daily admission of air to harden the foliage, so it will stand after cutting. Keep them disbudded right along which will give better spikes and better stems to cut from, which will bring better prices.

Pelargoniums

See that these plants are kept growing from this out. Give them a sunny house, yet one where a low night temperature of 45 degrees or so is maintained. Feed liberally with liquid manure. An alternate top-dressing of Clay's or some other equally highly concentrated fertilizer will also assist in making the wood firm and cause the plants to flower freely. Where they are very much pot-bound they should be repotted in a compost containing two-thirds fibrous loam, one-third dry cow manure, also a dash each of sand and fine bone. Drain the pots well and pot firmly, leaving good margin for water. Green aphis is the arch enemy of the show pelargonium and must never be allowed even to show itself. We often see batches of these beautiful plants simply alive with aphis. The growers then give them a heavy smoking, which is likely to remove the pests and flowers at the same time. Fumigate often in light doses. Keep the plants spread out and as light as possible, and on warm days give them a syringing. If they are treated thus, you will get nice, stocky plants which will be creditable to you and satisfactory to your customers.

Sowing Asters

Now is a good time to sow some of the early asters. There are quite a few florists who have vacant bench room to fill up with something. Probably the earliest of all asters is Early Wonder now obtainable in two colors, pink and white. This comes in at least a week ahead of Queen of the Market, has larger flowers and partakes more of the character of the Comet section. Queen of the Market is the standard early variety to grow. It gives a tremendous crop of flowers not so long-stemmed as the later sorts, but valuable for all classes of design work. The Hohenzollerns are also fine early asters, with big flowers, and are grand for cutting. The seed should be sown now in flats. Cover lightly and place in a temperature of 50 to 55 degrees at night. Keep the little plants, when they appear, close to the glass to make them sturdy. In benching asters, remember that they appreciate a nice and rich soil—one such as chrysanthemums could thrive in. As a rule white asters have first call, pink, light blue and dark blue following in order of popularity.

Seeds to Sow

Do not fail to make sowings of verbenas, petunias, torenias, snapdragons, grevilleas, vincas, myosotis, stocks, mignonette, celosias, bedding begonias, salvias, pentstemon, Musa ensette, lantamas, dianthus, dimorphotheca, etc. Start these seeds in a warm house, where they will germinate without any trouble.

Mr. Farrell's next notes will be on the following: Alternantheras; Care of Palms; Flowering Shrubs for Easter; Rambler Roses; Sweet Peas; Starting Coreopsis.

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Retailers in line

The scheme for the participation of the retail florists in a flower show as successfully carried out at Cleveland opens up a very promising vista of possibilities. The difficulties which have been found almost unsurmountable in an exhibition planned on competitive lines are entirely removed and we look to soon see quite a change in the aspect of our flower shows as a result of this well-arranged innovation. Of course, the scheme can be carried out fully as well with standard varieties as with novelties, and with other flowers as well as carnations. We would suggest, as an improvement, that exhibitors be allowed to use one other small flower in combination with carnations, for grace and color effect, such as sweet peas or lily of the valley.

Old and new problems of the A. C. S.

Last year at New York, the American Carnation Society faced a rather serious problem when it came to selecting place and policy for its 1914 meeting. The outcome would seem to indicate that the dilemma was wisely met. Cleveland was selected primarily for its availability as a location where a revival of enthusiasm and popularity on old-time lines together with an influx of new members might reasonably be looked for. This object was presumably attained, although it might be a question whether the success of this meeting would be repeated under other circumstances and diversions such as an important national event in contiguous territory and only a few weeks removed. The presence of so many old-time seasoned convention faces from points more or less remote must have been very gratifying to those who carry on their shoulders the responsibilities of the society's management, while no well-wisher of the organization could fail to feel pleased with the preponderance at the sessions of youthful and closely interested attendants. Just what proportion of these latter availed themselves of the opportunity to take up membership we know not, nor have we any idea to what extent the accessions to membership were affected by the discontinuance of the custom of free admission to the banquet as a members' perquisite, but of the interest displayed by the younger element in the meetings and in the banquet there can be but one opinion. The selection of a nearby city for next year's meeting, in view of the foregoing, appears to have been judicious and to offer a reasonable assurance of the continued support of the new blood enlisted on this occasion. Complications are not impossible, however, should the American Rose Society also select Buffalo as its meeting place next year as now appears probable, thus introducing once again the problem of a compromise date for a joint convention with the alternative of a split attendance of long-distance members and more or less dissatisfaction in either case. The decision of the National Flower Show Committee to hold the Fourth National Flower Show in Philadelphia in the spring of 1916 will again bring to the front the same predicament between the insistent advocates of a mid-winter meeting for business reasons and those to whom this is not particularly essential.

MID-WINTER SHOW AT BOSTON.

The midwinter exhibition at Boston Jan. 31 to Feb 1, while somewhat limited in the number of exhibits was fully up to the usual high standard of quality. Primulas and begonias exceptionally fine. In cut flowers carnations showed up well especially the prize winning White Enchantress and White Wonder, Commodore and Pink Delight. These were staged by A. A. Pembroke. Princess Dagmar from Patten was superb. Many of the local prominent growers were absent with their exhibits, at the Cleveland meeting, which was responsible for the limited number here. It was pleasant news to the stay-at-homes to hear they had scored so well out there. There was only one exhibit of roses, a grand vase of the unnamed seedling from the Waban Conservatories. It was conceded that Alex. Montgomery has a gem to introduce to a discriminating flower loving public in the near future. Thos. Roland had the field to himself on sweet peas. Begonia Florence Davenport was shown with Glory of Cincinnati. Its superiority was evident. Buddleia asiataca from R. & J. Farquhar & Co., was strikingly attractive. Knight & Struck Co., had chorizema and epacris. Yellow and white snapdragon from H. Huebner, were very fine. Wheeler & Co., showed a collection of exquisite phalaenopsis.

WALTER MOTT.

List of Awards.

Plants—Begonia Gloire de Lorraine—1st, Mrs. J. L. Gardner; 2d, A. M. Davenport. Begonia Glory of Cincinnati—1st, Mrs. Lester Leland; 2d, A. M. Davenport. Freesias 1st, Wm. Whitman; 2d, Miss C. Warren. Primula sinensis—1st, Wm. Whitman; 2d, Wm. Whitman; 3d, Mrs. J. L. Gardner. Primula Kewensis 1st, E. A. Clark. Primula stellata—1st, Mrs. J. L. Gardner; 2d, Wm. Whitman. Primula obconica—1st, Wm. Whitman; 2d, Wm. Whitman; 3d, Mrs. J. L. Gardner. Primula malacoides—1st, Wm. Whitman; 2d, Mrs. Frederick Ayer; 3d, Duncan Finlayson. Roman hyacinths—1st, Wm. Whitman; 2d, Mrs. J. L. Gardner. Calanthes—1st, Wheeler & Co. Three orchids, other than calanthes—1st, F. J. Dolansky; 2d, Mrs. J. L. Gardner; 3d, F. J. Dolansky. Specimen orchid, other than calanthes—1st, Col. Charles Pfaff; 2d, Wheeler & Co.; 3d, Mrs. J. L. Gardner.

Flowers—Carnations—Vase of fifty, not less than five varieties—1st, M. A. Patten; 2d, A. A. Pembroke. Vase of twenty-five, not less than three varieties, private growers only—1st, E. B. Jordan; 2d, Mrs. Frederick Ayer. Fifty white—1st, A. A. Pembroke; 2d, A. A. Pembroke. Fifty red—1st, A. A. Pembroke. Light pink—1st, J. W. Minot Co. Flesh pink—1st, A. A. Pembroke; 2d, Strouts. Dark pink—1st, A. A. Pembroke. Crimson—1st, J. W. Minot Co. Scarlet—1st, J. W. Minot Co. White variegated—1st, A. A. Pembroke. Freesias—1st, F. W. Fletcher. Violets, single—1st, Miss C. Warren; 2d, E. Bingham. Violets, double 1st, E. Bingham. Sweet peas 1st, Thomas Roland.

Gratuities—Mrs. Frederick Ayer, Erica melanthera; Miss C. Warren, Erica melanthera and Lachenalia Nelsoni; Mrs. J. L. Gardner, cyclamen; A. M. Davenport, Gloire de Lorraine begonia, white and pink; Thomas Roland, sweet peas; Mrs. C. G. Weld, tulips; Miss C. Warren, Cytisus racemosus; Wheeler & Co., Phalaenopsis amabilis; Patten & Co., Carnation Princess Dagmar.

First class certificates Thomas Roland, winter flowering sweet peas Christmas and White Spencer; H. Huebner, winter blooming antirrhinums; Duncan Finlayson, Cymbidium hybrid eburneum x insigne; F. J. Dolansky, Cattleya Trianae Mrs. Thomas F Galvin; M. A. Patten, Farquhar's Universal mignonette; Waban Rose Conservatories, unnamed rose.

Cultural certificates—Martin Sullivan, superior cultivation of Primula obconica and Primula Malacoides; A. A. Pembroke, vase of Calendula Orange King.

Honorable mention Knight & Struck Co., Epacris paludosa and Chorizema cordata splendens; R. & J. Farquhar & Co., Buddleia asiatica; Mrs. C. G. Weld, pink snapdragons.

NEW RED ROSE, "HOOSIER BEAUTY."



This engraving was intended to appear in the advertisement of Messrs. F. Dorner & Sons Co., and E. G. Hill Co., last week, but Uncle Sam was two days behind time in delivering the plate. We are glad to give it room in our reading columns for it is a fine portrait of a fine rose. See adve. on page 149, issue of Jan. 31.

NEW AZALEAS.

At the Azalea exhibition in Ghent, Belgium, during the Christmas Holidays, the Haerens Co., exhibited a number of novelties. Among those which won the most distinction for very early forcing qualities and color of the flowers were the following Azalea indica varieties:

Haere Will's Pink Pearl; very similar in color to Enchantress carnation. President Edg. Wartel; a sport of Pres. Osw. de Kerchove. President W. Wilson; a sport of Vervaeneana very deep rose bordered with lighter pink. Marie Antoinette; an excellent Christmas variety, rose color. Camellia Alba Plena; a double white, similar in shape to camellias.

OBITUARY.

We very much regret to learn of the death of the youngest daughter of William T. Burton, superintendent of Mrs. Kennedy's estate at Bar Harbor, Me., which occurred on Tuesday evening, February 3, very suddenly. Mr. Burton has a host of friends in the profession and all near and far will join in feeling the deepest sympathy for him and his family.

AMERICAN CARNATION SOCIETY

Additional Proceedings

REPORT OF COMMITTEE ON THE PRESIDENT'S ADDRESS.

Your committee for the consideration of the President's address respectfully submits the following report:

Trophies.

We feel that the taking of an active executive part in the exploiting and management of a strictly local exhibition, by this society, is likely to lead to serious complications in the future. On the other hand it is the duty of the society to encourage in all feasible ways the public exhibition of the carnation everywhere. For these reasons your committee does not favor the award of a cup or other trophy of large value at the New York exhibition, as creating a precedent for similar demands from other parts of the country in future, which demands could hardly be met. Your committee recommends that one silver and one bronze medal be offered for competition at the New York exhibition and that the society, when proper application is made, offer similar medals at other exhibitions where it is shown that such exhibitions are of sufficient importance to warrant such offer.

Color Classification.

The question of the color line in the pink classes having been set for special discussion need not be considered by this committee except that your committee would recommend, no matter what color divisions may be adopted, that the judges be authorized, at any time when convinced that a mistake has been made in any entry in the pink classes, to transfer the exhibit wrongly entered to the proper division of the pink class and to consider it therein without prejudice, the same as though it had been originally so entered.

"Gluts."

It seems to your committee that "slumps" or "gluts" in the market are occasional, but inevitable conditions to be met in growing and marketing perishable crops. It might be well to suggest to the grower the advisability of more strictly and carefully grading and culling his product at such times. We believe that the marketing of carnations carefully packed in boxes is to be recommended for the better grades and in markets which will accept flowers so packed.

Cultural Questions.

We doubt that carnations are losing either in fragrance or keeping qualities. It is true that some varieties are more fragrant than others—this has always been the case. It is certainly true that flowers produced during the comparatively sunless winter months will never be so fragrant as in late spring or early summer when the sun is approaching its maximum in intensity of effect. Your committee feels that the deterioration which occurs in carnations is largely due to bad or over-intensive cultivation and especially to improper methods in the selection of cuttings and their handling. We believe it quite possible to build a variety up by careful cultivation and especially by continued intelligent and careful selection in propagating.

Membership.

It is surely to be regretted that more of the men interested in the growing and sale of carnations have not become members of this society. Other societies perhaps are making no better, if as good a showing. We feel that there is no way of largely increasing our membership except by the slow and sure way through the active and continuous efforts of our members with their individual friends and acquaintances.

Your committee is hardly inclined to admit that we have exhausted the possibilities of development in the carnation in any direction—even in size.

Respectfully submitted,

S. J. Goddard.
W. Nicholson,
W. N. Rudd.

ADDITIONAL PRIZE WINNERS.

In our hurried notes last week the name of J. W. Minott Co., Portland, Me., was accidentally omitted from the list of prize winners. This firm won first on 50 "any other crimson" with Pocahontas, second on 50 Beacon and second on "any other flesh-pink" with Melody. The Hitchings cup offered as a sweepstakes in Sec. A., was worthily won by Philadelphia exhibited by S. S. Skidelsky & Co. The Burki prize for the vase of carnations holding in best condition to the end of the exhibition was awarded to S. J. Goddard for his Pink Delight. It is worthy of note that of the five vases considered by the judges for this award, four were from Goddard's collection. The president-elect evidently "has the goods on him."

GOOD TEAM WORK.

We do not recall any similar occasion where the members of the local committees of arrangements were more constantly and efficiently "on their job" than at this Cleveland meeting. In fact they were in evidence at all times, industriously attending to their duties and in the most courteous manner to all the visitors. These committees were constituted as follows:

F. A. Friedley, chairman; Publicity, H. P. Knoble; Decorating, Chas. E. Russell, T. J. Kirchner, Timothy Smith; Entertainment, Geo. W. Smith, Herbert Bate, Herman Hart; Retail display, F. C. W. Brown; Admission, George Bate.

CARNATIONS IN SECOND YEAR.

In the discussion which followed Mr. Pyfer's paper on carrying over carnation plants a second year, the consensus of opinion seemed to be that the success or faliure of such a method would depend largely upon the summer climate of the locality, which should be cool, and also upon the local demand for the summer grown crop. Strout's at Biddeford, Me., had been very successful in this respect and had the benefit of both the pre-requisites mentioned. It was generally agreed that the hot sun in most places was a great and almost unsurmountable drawback to success with "carried over" carnations.

THE TABLE EXHIBITS.

The plan for enlisting the support of the retail florists of Cleveland, as carried out, was quite a success. Ten decorated dinner tables were shown, each by a different florist, and the material in each confined to one new carnation, the flowers being provided by the respective growers or introducers of these novelties and the assignments being chosen by lot. No awards were given and no priority or distinction recognized. "Philadelphia," entered by S. S. Skidelsky & Co., was nicely exploited by J. M. Gasser Co., the centre being a tall slender vase with three low baskets at the base. Knoble Bros used Roper's Alice Coombe in a slender centre vase flanked by three low vases. Patten's Princess Dagmar was nicely handled by C. M. Wagner. Gloria was well displayed in a beautiful gold vase and three small baskets by Smith & Fetters. Adam Graham & Sons' subject was Peerless Pink, grown by the Chicago Carnation Co., a lovely combination with Adiantum Croweanum. The Eadie Co. had Matchless, from Cottage Gardens Co. The flowers in the central design were festooned with strands of baby ribbon in soft colors. In this instance, especially, permission to use one flower other than the carnation, to add color life would have been a great help to the decorator. Mrs. E. G. Wilson had Gloriosa in a graceful vase effect but rather overloaded with pink chiffon. Yellowstone from F. Dorner & Sons Co. was displayed in a low arrangement by Westman & Getz, with Adiantum Farleyense. Joy from A. L. Randall Co. was used in a low handle basket by the Jones-Russell Co. Pink Supreme from J. H. Leach & Son, North Easton, Mass., looked fine in a low wide vase arranged by A. M. Albrecht.

THE BANQUET.

This social feature of the convention, so enjoyable always, was a splendid success. The baskets and vases of flowers that had been exhibited were now turned to use as table decorations for the guests. Many of the ladies were in evening gowns. Officers and speakers were lined up at one long table and the other guests were grouped at round tables, making a brilliant and inspiring picture and there was plenty of good music.

President Knoble of the Cleveland Florists' Club started the exercises of the second section with a few words of welcome, expressing the hope that

the visitors would soon come again to Cleveland. President Brown of the American Carnation Society next made a short address, voicing appreciation of the kindness and hospitality of the florists of Cleveland. Adam Graham was then introduced by him as toastmaster. Those who know this versatile and eloquent veteran need no assurance that he kept things going lively. His introductions were inimitable, full of humor and characteristic Scottish wit. He spoke incidentally of John Thorpe, who was the father of the present chain of florists' organizations, as having made his first home in Cleveland when he came, a young man, to this country from England, and paying a warm tribute to his genius and horticultural ability. He "brought down the house" with a most comical reference to E. G. Hill's pre-eminence in business shrewdness and the declaration that Mr. Hill's son Joe was in no respects his inferior, having, according to his paper read the previous day, "got every plant on the place so educated that they all have to ring the time clock every morning."

George Asmus of Chicago, responded for the National Flower Show, telling of the successes of the past and forecasting the future development not only in indoor shows, but in outdoor exhibiting as at Minneapolis last summer and as contemplated for next summer in Boston.

Wm. J. Stewart, of Boston, responded with inborn enthuiasm to the toast for the Ladies. His illustrations of the helplessness of the sterner sex when deprived of the companionship and ministrations of mothers, sisters, daughters and sweethearts drew forth a veritable whirlwind of applause and merriment. Mrs. E. G. Wilson, who responded for the Men was equally successful in eliciting uproarious applause with her apt and comical allusions to man's place as a perpetual care, yet most delightful luxury in woman's existence.

Charles Gibson, a local celebrity long known as "Carnation Charley," proved a very entertaining speaker and storyteller. H. B. Howard of Chicago, said a few words for the Horticultural Press and J. W. Rodgers of Dayton, said some pleasant complimentary things for Our Hosts.

W. F. Kasting was received with long-continued applause as the new postmaster of Buffalo. He urged that everyone do all possible to advance floriculture and bring it to its rightful position as the peer of any industry in the world. He invited all to come to the Buffalo meeting next year and promised to send any errant husbands at that meeting back by parcel post on request from home. S. J. Goddard, the newly elected president, spoke in terms of praise of the show which Cleveland had gotten together and expressed high hopes for next year's meeting.

Telegrams of congratulation were received from Theodore Wirth, Minneapolis, and W. F. Gude, Washington, and the Tippecanoe Club of Cleveland, who were having their eleventh celebration of McKinley Day, sent thanks for vases of carnations that had been sent from the exhibition to grace their tables. Final resolutions were read by E. G. Gillett, Cincinnati, and then came Auld Lang Syne" as the close of a most enjoyable evening.



THE J. M. GASSER CO. TABLE DECORATION AT CLEVELAND EXHIBITION.
Carnation Philadelphia used.

NOTES OF INTEREST.

One of the most impressive object lessons of the exhibition was the overwhelming advantage in keeping qualities shown by the eastern-grown flowers over the majority of the exhibits from the west. In fact much of the latter was never put on the tables, practically the entire shipments of two of the large growers in that section arriving in useless condition, as stated in our notes of last week. Just what part the sunless weather of late and express companies' methods of handling, had in the misfortune thus sustained was a much discussed question on all sides. The eastern growers having traveled much the longer distance were naturally greatly elated.

In the discussion of the recommendations in the president's address, on Thursday afternoon, W. N. Rudd, speaking for the special committee, recommended that in view of the serious complications that might develop as a result of over active participation with other bodies in any large show, the Carnation Society should not offer any very valuable trophy at the New York Show this spring as creating a precedent for a similar demand from other parts of the country which the society would be unable to meet. This and other recommendations were unanimously adopted.

The three vases of 100 blooms each eligible for the award of the Fred. Dorner gold memorial medal for "any undisseminated seedling carnation," were superb examples of modern carnation development. They were Matchless, Gorgeous and Princess Dagmar, and Matchless, entered by the Cottage Gardens Company, won the prize. These three exhibits were, on vote of the society, sent to the Tippecanoe Club of Cleveland on Thursday evening, to adorn the tables at the eleventh anniversary celebration of McKinley's birthday.

On Wednesday afternoon a party of about 30 of the long-distance visitors was taken in autos, under escort of Messrs. C. J. Graham, Friedley, Bate Bros. and other local florists, to see the city and suburbs. Calls were made at the greenhouses of Adam Graham & Sons, F. R. Williams Co. and Frank Friedley and finally the White automobile factory. Fully two hours were consumed in a very superficial tour through the various departments of this great hive of mechanical industry.

Much sympathy as well as widespread disappointment was manifested when practically the entire carnation shipments of F. Dorner & Sons Co., and R. Witterstaetter, proved to be unfit to stage, the flowers being all closed up, the yellow variety, Yellow Prince, being about the only thing saved from the wreck.

J. A. Peterson's display of twenty specimen plants of his new begonia Melior was a centre of attraction for the trade and the public. In size and luxuriance of bloom it is certainly a marvel. We understand that Mr.

Peterson has another surprise in the begonia line nearly ready to spring.

This was one of the few instances where the American Carnation Society escaped blizzard weather as an accompaniment to its midwinter meeting. A temperature of 65 degrees on January 29 is a record which will long stand unbeaten.

The Chicago Carnation Co. distributed a handy tabulated folder, with the various classes of the premium list ready for filling in with the awards. It was a convenience much appreciated by the visitors.

If every florist in the country could see the mound of Primula malacoides with mirror background in the window of the J. M. Gasser Co., the sale of this dainty little plant would be prodigiously increased.

A store window filled with straw hats, with a sign reading "Fur Caps $1.60," on January 29 was good evidence that Adam Graham has not quite got a monopoly of all the humor in Cleveland.

E. Allan Peirce found much interest attaching to his exhibit of the new waterproof paper pots he is about to put on the market. Many advance orders for spring delivery are already booked.

We do not know of a more eligible location for a flower store anywhere than the "flat iron" corner in Cleveland, occupied by the Jones-Russell Co. They make good use of it, too.

Birch bark interior finish, particularly in windows, seems to be quite popular in Cleveland. We noticed several of them.

SOME CLEVELAND GROWERS.

The houses of Adam Graham & Sons are not located where they can get as much sunlight as desirable and the carnations show the result. It does not take long in this smoke-clouded city to get a deposit on the greenhouse roofs which shuts out much of the light. Ferns do finely under such light and general stock looks well. We noted a splendid array of trained Rambler roses that promise good for Easter. Plenty of lilies coming along nicely. All the houses are being fitted as rapidly as possible with cement benches.

The establishment of the F. R. Williams Co., in which also Bate Bros. and the Cleveland Cut Flower Co. are interested, comprises a very extensive range of houses mostly of the ridge and furrow type. Tile benches are used throughout. Carnations and roses are grown by the acre and they look good. Bulbous stock is also a large specialty. The visitors were much interested in an automatic coal feeding arrangement here.

Frank Friedley has also a very large place. Here is found a supply of about everything — carnations, ferns and other greens, bulb stock, callas, roses and a large planting of sweet peas — all in finest of "ship-shape."

TWO CHUMS AT CLEVELAND MEETING.



R. E. Jones, of Advance Co., Richmond Ind. Sam Seligman New York City.

PERENNIALS AND WHAT THEY MEAN FOR THE AMERICAN GARDEN.

(A paper by Richard Rothe, read before the Pennsylvania Horticultural Society, at the January meeting.)

(Continued from page 184)

The Procession.

Sweet and mellow are the first strains of the vernal prelude with the white of snowdrops, rockcress and leucojum, and the yellow of primrose, narcissus and crocus, and the blue of scillas, hepaticas, anemones and violets. During April it gains in volume when Primula Sieboldi, Alyssum saxatile and Iris pumila join and the wealth of blossoms of hardy candytufts, doronicums, trollius and ranunculus come in evidence. By the aid of the strong notes of Cottage and Darwin tulips, German iris, foxgloves, bellflowers, lupins, peonies, sweet williams, anchusas and Pyrethrum hybridum it swells on to the glorious height of the May day, emphasized by the festive crescendo of the jubilant color fanfares of the Oriental poppies. For several weeks our garden becomes pregnant with the sweet fragrance of hardy garden pinks, and just when the hardy garden roses are at their height, we may enjoy the most charming three-color accord of June consisting of the blue of Delphinium hybridum, the white of Annunciation lilies and the yellow of coreopsis or oenotheras. In turn the bold, stately spikes of Yucca filamentosa call for our admiration and, from now on, in broad, evenly-balanced cadenzas of the rich shades of Japanese iris, Phlox paniculata, spiraeas, vernicas, anthemis and gladiolus we see ourselves gradually gliding over to the grand color finale of the fall. Montbretias introduce new notes; we also enjoy the playful intermezzo of light-winged masses of flowers of the Japanese anemones, swaying in a gentle breeze. The warm golden waves of tall, late helianthus and heleniums roll by and vanish. At last we witness the supreme effort of dahlias, hardy fall asters and chrysanthemums, vieing with the hues of the autumn foliage to give strength and radiance to the closing strains of the most beautiful color symphony on earth. To the thinking human mind, the total picture is an illustration of the fleeting character of all things earthly.

The Way of the Enthusiast.

Likewise is a certain conventionality on our front lawns exposed to street or highway unavoidable. The herbaceous flower garden, as part of American home grounds, should represent a sheltered atmosphere in which we may be ourselves and nothing more. To suburban and country residents it becomes more and more a private studio in which to enter into the intimate acquaintance of plant life and enjoy floral beauty. Self-interest, self-action and the free exertion of individual taste in devising and planning, is not only a delightful occupation, but in by far the most instances the guarantee for advance and final success. The novice, who with samples of her tapestry and wallpaper in hand on a busy May day over the seed store counter requests our advice in her selection of herbaceous flower seeds for an immediate lively mid-summer and fall effect, in colors corresponding with the interior of her boudoir, may sometimes prove more than amusing. She will, however, in time join the ever-increasing number of more advanced flower lovers, who with pencil and note book in hand, at regular intervals, pay visits to our nurseries which command our serious attention. One of the latter category, an ardent garden enthusiast, in the course of a conversation a few years ago, speaking of her beautiful nothern sea coast home, said: "I call myself fortunate to have a gardener who well understands how to grow plants; but just think of how much more efficient he would prove if he would love flowers and look at them as I do!" It was a mere incident, causing a remark which throws a flashlight on the situation. To love flowers means in this case to possess the faculty to absorb their beauty, discern character of habit and form, and the trained eye and practical experience for the all-important work of associating hardy plant species for successive effects.

Are the majority of us taking notice of the signs of our time, by early preparation for near exigencies? Insert an "ad" in the want column for a competent man to take charge of a first-class herbaceous garden; the result and after experience is likely to give you the answer.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

A meeting of the National Flower Show Committee was held in the Hotel Statler, Cleveland, Thursday, Jan. 29, 1914. Present: Charles H. Totty, New Jersey; Willis N. Rudd, Illinois; George Asmus, Illinois; A. Farenwald, Pennsylvania; William F. Kasting, New York; John Young, New York. George Asmus, of Chicago, was unanimously elected chairman of the committee, to succeed Charles H. Totty. Mr. Totty was accorded a hearty vote of thanks for the great work he had done as chairman and for the very successful manner in which he had arranged for and carried out all arrangements for the recent successful show held in New York City.

The invitation of the Florists' Club of Philadelphia to hold the next National Flower Show in the spring of 1916 in Philadelphia, was unanimously accepted. The secretary was instructed to invite the Pennsylvania Horticultural Society to co-operate in making this coming show the biggest ever held in this country. Mr. Farenwald presented photographs of the building wherein it was proposed to hold the show and letters giving the dimensions and particulars, especially as to the exhibition hall itself.

Chairman Asmus appointed the following committees:

Premium or Schedule committee: Charles H. Totty, A. Farenwald, Thos. Roland.

Committee on Contracts and Lease: A. Farenwald, W. F. Kasting, W. P. Craig.

Publicity committee: W. N. Rudd, Chas. H. Totty, John Young.

Committee to secure special prizes: Wm. F. Kasting, Theo. Wirth, W. N. Rudd.

The meeting was most enthusiastic and stirring addresses were made by W. N. Rudd, Wm. F. Kasting, Chas. H. Totty and A. Farenwald, showing that the experience gained in the recent exhibitions would help to make the Philadelphia Show the grand success that it should be. It was the unanimous opinion of the committee that no city in the United States is better able to conduct a National Flower Show successfully than the city of Philadelphia. It is doubtful if many of the members of the society realize the great amount of hard work which is being done by the National Flower Show Committee at their meetings and during the time that the arrangements for the Show are being made, and if every society member will assist and do his little share, there is no question but what this exhibition will be the best ever.

Department of Plant Registration.

Public notice is hereby given that Julius A. Peterson & Sons, of Cincinnati, Ohio, submit for registration the Begonia described below. Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the Secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Raiser's description:—Seedling, result of cross between Lonsdale's light pink sport of Gloire de Lorraine, and Socotrana. Strong robust grower, from 12 to 18 inches to 2 feet in height; flowers are borne in great profusion; male flower is 1¾ to 2 inches across and 4-petaled; female flower 5-petaled and very rare; color of flowers a soft, delicate, satiny pink, a shade lighter than Glory of Cincinnati; foliage nearly round and of a dark green color. It flowers from November till March and is in prime condition during December and January. Easy to propagate. Succeeds best in equal parts of loam anl leaf mould with some sand added. Temperature while in bloom, 56 to 58 degrees at night. Name, "Melior."

JOHN YOUNG, Sec..

January 31, 1914.

THE AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society will meet in New York City on Feb. 9th. The business before the committee will be the fixing of dates for staging the different exhibits, the arranging for managing details, as there are always a number of things that do not show for much, but if not looked after cause many little annoyances. The great exhibition of last year reflected much credit upon the working management. Various entries are already started, and it looks as though the rose growers are going to take a very active interest in the show. The American Rose Society would be very glad to have early notice of intending exhibitors. Any one having special prizes to offer we shall be pleased to hear from them. A variety shall be considered undisseminated, which cannot be exhibited by other than the introducer. All roses shall be disqualified where exhibited with more than two growths (one pinch) except in classes calling for displays. No variety shall win either the American Rose Society Silver Medal or Gold Medal more than once.

The Waban Rose Conservatories have offered a special prize of $25.00 for Russell roses.

BENJAMIN HAMMOND, Sec
Beacon, N. Y.

The American Rose Society records the new rose, "Francis Scott Key" originated by John Cook, Baltimore, a seedling from "Cardinal" crossed with crimson unnamed seedling, flowers red; size large to very large, with sixty petals or more, opening to high center; a strong, free and easy grower averaging more long, sturdy stems than any other Hybrid Tea rose.

BENJAMIN HAMMOND, Sec.

FLORISTS' CLUB OF PHILADELPHIA.

R. T. Brown of the Cottage Gardens was the attraction at the monthly meeting held on the 3rd inst. He gave an informal address full of well digested and up-to-date information on the carnation. The latest claimants for public favor were ably discussed and much valuable advice given in regard to propagating and marketing. By careful attention to these details an aggregate return of three and a quarter cents per flower was realized during the past five years. With an average cost of production of twenty three per plant showing a handsome profit in growing this flower commercially, provided the retailers do their duty and give proper returns. Comparisons of English methods of growing and marketing were made and such of these as were applicable to our differing conditions and climate were duly noted and recommended. The latest word from the Cleveland convention was also a feature of Mr. Brown's very interesting and instructive talk.

P. Joseph Lynch of New Castle, Indiana, gave an interesting talk on roses, emphasizing the point that many of the older roses like Bonsilene, Cecille Brunner and Marie Guillot were still in the ring and doubtless there were many more worthy of careful test, and the retailers should wake up and make their customers interested. He said it was just as Mr. Brown remarked about the older carnations. The new ones, many of them were good but we should never be in too much of a hurry to throw out our old well-tried standbys.

Among the exhibits of the evening were some splendid flowers of new varieties, which created great interest. Pennock-Meehan showed Mrs. Akehurst, also seedling No. 30 clear white and Princess Dagmar. S. S. Skidelsky showed Philadelphia. Cottage Gardens, Matchless and a sport of Mrs. C. W. Ward a pure light pink. Richard Langle, a vase of white Enchantress very well done and a large pure white seedling Freesia. J. M. Rider, Baltimore, vase of pink seedling, color of Enchantress Supreme, also a new white seedling.

The secretary read a letter from the S. A. F. National Flower Show Committee stating that the Club's invitation to hold their next International Exhibiton in Philadelphia had been accepted. The subject for next meeting, "Geraniums," by a master-hand R. Vincent, Jr., of Maryland; stereopticon illustrations.

NEW BEDFORD HORTICULTURAL SOCIETY.

The regular monthly meeting of the New Bedford Horticultural Society was held Monday, Feb. 2, with the largest attendance known for several years. It has been the policy for three years past to have all shows free and depend on the generosity of the public to support these by what is

practically an associate membership. This has been made possible through the kindness of the trustees of the Public Library, who have granted the use of the first floor of their beautiful building together with janitor service, provided no admission was charged. At this meeting plans were evolved for four free shows the coming season, viz.: Peony show early in June; Rose show the latter part of the same month; Dahlia and general flower show in September; Chrysanthemum show early in November. The annual banquet will be held on the 19th of this month and the annual clam-bake in August, for which the entertainment committee are making elaborate plans. Altogether this bids fair to be the banner year for this society. An entertainment committee was appointed consisting of W. F. Turner, chairman, James McVicker and George H. Reynolds,

WILLIAM F. TURNER.

ELBERON HORTICULTURAL SOCIETY.

The Elberon (N. J.) Horticultural Society held its regular monthly meeting Feb. 2. This being carnation night, the carnation growers of the Elberon section of Long Branch turned out strong and made a very creditable exhibition. C. H. Totty, of Madison, N. J., was a welcome visitor, acting as one of the judges. He complimented the growers on the quality of the flowers, and especially White Wonder, as grown by George Masson, and Beacon by Thomas Hambleton. They were superb. Mr. Sperling, of the Stumpp & Walter Co., was also in attendance and complimented the growers on their skill.

Following is a list of the awards:

Carnations White: George Masson 1st with White Wonder; D. C. Kelly 2d, White Perfection. Light pink: George Masson 1st with Pink Enchantress; Thomas Hambleton 2d, Pink Enchantress; D. C. Kelly 3d, Pink Enchantress. Dark Pink: D. C. Kelly 1st with C. W. Ward; Anthony Bauer 2d, C. W. Ward; John Clunas 3d, Northport. Red: Thomas Hambleton 1st with Beacon; John Clunas 2d, Beacon. Sweepstakes in all classes: George Masson 1st with White Wonder; George Masson 2d, Pink Enchantress.

D. C. Kelly, cultural certificates for mignonette and Rose Radiance; John Clunas, cultural certificate for Phalaenopsis Schilleriana; C. O. Duncan, cultural certificate for Coelogyne cristata; George Masson, honorable mention for sweet peas.

WM. BRYAN.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, Feb. 17, 1914, at 8 p. m. The lecture of the evening will be by L. W. C. Tuthill of New York, on "Advertising, the Gasolene of Business." It will be carnation night, and many of the 1914 novelties, as well as all the more popular standard varieties will be shown.

The annual club banquet will be held at Horticultural Hall on Tuesday, Feb. 24. Reception, 5.30 to 6 o'clock. Banquet at 6. Following the entertainment and post prandial exercises, dancing will be enjoyed. Tickets are now on sale and may be had from any of the officers or members of the executive committee.

W. N. CRAIG, Sec.

"FRANCIS SCOTT KEY"



New Rose by John Cook—A seeding from Cardinal and an unnamed seedling; a strong, vigorous grower, very large flowers, with extra long stems.

CLUB AND SOCIETY NOTES.

The regular meeting of the Cincinnati Florists' Society will be held on Monday, Feb. 8, at the club rooms.

Arrangements are being made for a flower show and trade exhibit in the Mayer building, Erie, Pa., on March 9th to 14th.

As a token of appreciation of his services as president, the Pasadema, (Cal.) Horticultural Association presented to James G. McGillivray, retiring president, a gold watch, on the evening of Jan. 16th.

The Horticultural Club of Boston, had as guests at its monthly meeting on Wednesday evening, Feb. 4, Dr. George E. Stone of Amherst, Mass., and Dr. J. J. Kennedy of Readville. The topic discussed was Progress in Rose Hybridization.

J. I. Donlan, former secretary of the old New York Gardener's Society says there is a movement on foot to get that organization active again. He will be glad to hear from any of the old members who are interested, at 133 West 28th street, New York City.

The Nebraska State Association of Florists held its annual meeting January 20th at the Lindell Hotel in Lincoln. Ed. Williams of Grand Island was elected president and Lewis Henderson of Omaha, secretary. Addresses were made by Charles H. Green of Fremont, J. R. Simonton of Falls City, Charles Faulkner of Omaha, Lewis Henderson and others.

At a meeting of the executive committee of the Horticultural Society of Chicago, January 27, it was decided that owing to the difficulty of securing a desirable place to hold the exhibition no spring show will be held this year.

MICHAEL BARKER, Sec. pro tem.

The following officers were elected at the sixth annual meeting of the Boston Retail Florists' Club: Thos. F. Galvin, Jr., president; Henry Comley, vice president; Benjamin H. Green, secretary; Julius Zinn, treasurer; Henry Penn, Sam Wax, N. Silverman, F. H. Houghton and Ed. McMulkin, directors.

Richard Vincent, Jr., is agitating a proposition for an excursion by water to the S. A. F. convention in Boston next August. Many in Baltimore, Washington and neighborhood have already looked favorably upon the proposition, and Mr. Vincent expects that others from Pittsburgh, Cincinnati and elsewhere may be induced to join. If a party sufficiently large can be secured, it is proposed to secure a special steamer from Baltimore on the Merchants' & Miners' line. All interested should communicate with Mr. Vincent at White Marsh, Md., who will be able to give cost of trip, etc.

THE SWEET PEA.

(A paper read before the Horticultural Society of New York by Ed. Jenkins.)

I was led to choose the sweet pea as a subject for my discourse this afternoon for several good and substantial reasons: First, because this beautiful annual is perhaps more truly "everybody's flower" than even the rose or any other plant in cultivation. Secondly, because the sweet pea above any other plant responds to good cultivation and liberal treatment by yielding to us a magnificent display of flowers over a long period and forms a grand exception to the old adage which says "you can't have your cake and eat it too," for the more sweet peas you pick the more you have, and, in fact, if you don't pick them you won't have them for very long. The rose and the carnation are sometimes so improved by the hybridist as to lose one of their greatest charms, their perfume, but not so with our favorite.

Its Origin.

While realizing that you expect from me practical cultural remarks, I feel sure that you will pardon a brief excursion into the history of the introduction to cultivation and the subsequent development of the sweet pea to its present measure of perfection.

As it is almost certain that the sweet pea reached America through Great Britain, we must go back there for a glimpse of its earlier development. About the last year of the seventeenth century an Italian priest named Cupani found the sweet pea growing wild in the island of Sicily and sent some plants of it to a Doctor Uvedale, at Enfield, in England. We do not know much about it from this date for the next hundred years or more, but suppose it to have been cultivated to some extent. In 1820, some six colors or shades were listed and in 1860 there were nine. Then, about 1877, commenced the great Eckford epoch when varieties and shades of colors were multiplied with great frequency, together with an increase in size and substance. This period of development continued without interruption till about the dawn of the twentieth century, when the sweet pea world was delightfully astonished by the advent of the waved standard, better known as the Spencer type. As this type reigns supreme today, at least among the summer-flowering kinds, we may well spare a minute to note this wonderful occurrence and to observe that when the sweet pea had reached such a stage of development that she was ready to make a break, or as gardeners call it, "to sport," and she did so in three different places the same season, viz.: in Earl Spencer's garden, in Northamptonshire, (whence the name of Spencer), and with Mr. Unwin, at Cambridge; also with Mr. Eckford, at Wem, in Shropshire. This tendency to break in several different sections the same year has been noted in some other plants, and one might argue that it was a sign that nature was jealous and opposed to monopoly. The old grandiflora variety, Prima Donna, appears to have been the chief factor as a parent of the Spencers, and its general tendency to throw four flowers to each stem seems to have been transmitted as a characteristic of the Spencers. The last few years have brought still another change in duplex standards and occasionally duplex petals. What the future may have in store we know not, but that greater glories await us in the future, the past gives us every reason to hope.

The "JOY" BLACKBERRY



brings joy to all who grow, sell, or eat it. It is immensely profitable to the market grower, and "a joy forever" to the amateur gardener. The canes are of ironclad hardihood and need no staking. They yield heavily, all the canes being literally loaded with fruit every year. I have tested this berry for several years, and am willing to stake my reputation upon it. In the winter of 1911-12 every Blackberry in my trial grounds was damaged more or less **except the Joy** which came through with every bud and terminal in **perfect** condition.

Grow This Berry. It is Hardy and Wonderfully Productive

JOY Blackberries are coal black, and large, almost as thick through as they are long. In luscious flavor they surpass by far all other Blackberries I have ever grown. In my long experience with this berry its canes have never been affected, even slightly, by orange rust or other fungus disease, and I believe it is immune to them.

A full assortment of Strawberries, Raspberries, Blackberries, Grapes, Currants, Gooseberries, Garden Roots, Hardy Perennial Plants, Shrubs and Vines, Evergreen and Shade Trees, Roses, Hedge Plants, etc. Illustrated descriptive catalog replete with cultural instructions, free to everybody. Established 1878. 200 acres. Quality unsurpassed. Prices low.

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Preparing the Soil.

The next phase we have to consider is how to treat the sweet pea so as to get a maximum of quality and quantity. The ordinary everyday method is to sow the seed in rows very thickly, as soon as the ground is ready to work in spring; then with the exception of giving supports of some kind, the grower leaves the plants to take care of themselves until the flowers appear, and on some naturally rich soil, if perchance the rainfall is more than ordinarily abundant, very good results may now and then follow. However, the true lover and sweet pea enthusiast will not be satisfied by any such uncertain methods, but will cast about to find means whereby success is more nearly assured.

Apart from good seed, the fundamental basis, the all-important foundation of success, lies in the proper preparation of the soil, and if this operation is shirked or in any way skimmed over, your efforts will in a large measure be set at naught, and disappointment will almost surely be your lot, unless you are fortunate enough to possess one of those rare conditions of an ideal soil, rich, deep and porous. Possessing this, you might well ignore this part dealing with the preparation of the soil, but as in about ninety-five per cent. of the cases we are only blest with about six to eight inches of tolerably good soil we must labor heartily to improve this so that we may have from twenty-four to thirty inches of well-manured compost. The time to do this to the best advantage is during the months of September and October, as at this time the ground is usually in good condition for maneuvering. Generally work is not so pressing as in spring, and further it gives time for settling of the soil before planting.

Let me now describe the method which I have found very satisfactory, though making no claims to superiority over other methods. Assuming a hypothetical case of six rows, each fifty feet long, we would lay out a rectangular plot thirty-six feet by fifty and on the shorter or thirty-six foot side, three feet from the corner, set a stake, then every six feet a stake, until the six rows are indicated. Stakes should be placed opposite each other at both ends and should denote the center of each row. Now commencing on the fifty foot side, we remove the top nine inches to soil from three feet on both sides of the center of row one and place it outside of our plot entirely, to be later carted or wheeled to finish the last row The top soil being removed, we dig a trench (always using the end stakes as a center) eighteen inches deep and two feet wide, placing the subsoil removed on either side of the trench where the good topsoil has just been dug off. Then commencing on row two, we remove the topsoil off the six feet wide and to the same depth as before and use it for filling trench one, but not without mixing about a ton of half decayed farm-yard manure and fifty pounds each of bonemeal and woodashes, also about two pounds of well pulverized sulphate of iron, being sure at all times to thoroughly incorporate the whole mixture. Proceed thus to the last row when soil from row one will be used for filling. As each row is finished endeavor to leave the soil ridged up so as to give the frost a chance to do all the disintegrating possible. That all this sounds like a heavy task I know full well, but if you would have good, long stemmed peas, from the middle of June till at least the middle of September, this, or some modification of this method, must be followed.

Sowing the Seed.

Having prepared the soil we next come by logical sequence to the sowing of the seed and by all means spare no effort to secure good seed from a reliable seedsman. If you would not be disappointed in securing some choice variety which you have set your heart upon, get them as early as possible and keep in a cool place until sowing time arrives.

Before we sow, or perhaps before we buy, it will be in order to determine how many seeds we require. On the basis of six rows fifty feet long, i

will require six hundred plants to space the plants six inches apart, which is quite thick enough. At any rate, if we start to raise six hundred, the chances are that from one cause or another a few will succumb between germination and planting out time, if they do we can plant eight inches apart and this will fill up the rows and possibly give better flowers than if planted six inches apart. To raise our six hundred plants we must put in about nine hundred seeds, estimating a seventy per cent germination which is about what we may reasonably expect. At the outside it will only require three ounces, as each ounce contains more than three hundred seeds.

This immediately brings up the question of what is the best time to sow? While personally convinced by reasoning that the autumn is the *ideal* time to sow in pots or flats, carrying the plants through the winter in frames or a very cool greenhouse, and planting out as late in spring, and while I am following this method this winter, still I do not feel that I have given it a sufficient trial to advocate it conscientiously.

The system I have followed for several years is to sow in small pots about the middle of February or the beginning of March. Before sowing we treat the seed with cultures of the nitrifying bacteria, believing for the small expense and trouble involved in this operation, that the possible results make it well worth while, but I will not enter into the details of nitrocultures, as full directions always accompany each purchase, any more than to say its application is very simple.

The seed being sown, we prefer to germinate at a temperature not less than fifty, because at lower temperatures the whites and creams especially are very liable to rot. Some advocate the filing or chipping of the seed coat, and others soaking in tepid water to promote more rapid germination, but at the temperature mentioned and with plenty of water, we have never found these aids necessary. As soon as germination has taken place and the growing points are above the soil, a temperature of forty-five or even lower at night will suit. During the day a free circulation of air is always desirable as if the plants are in any way coddled natural resistance to disease will be impared and instead of a thrifty, hardy plant, we shall have nothing but weaklings. As soon as weather permits, remove the plants to a cold frame as the sooner they get away from artificial heat the better, and on every favorable occasion remove the sash completely so that the air may have full freedom to play around the plants. Needless to say they must never be allowed to suffer from lack of water, or to become starved for the want of repotting. According to locality the plants may generally be planted out in their permanent quarters from the tenth of April to May 1.

Planting Out.

Still cloudy weather is the ideal condition for planting, as on such a day the injury to the plant from temporary exposure of its roots will be a minimum. The trenches should have been moderately firmed by walking over them and then raked over finely, do not fear to open the ball and spread out the roots, even at the risk of breaking a few rootlets, as the advantages gained by doing so will more than offset any little damage. In planting be sure to press the soil into intimate contract with all the roots and if the soil be on the dry side, follow the planting with a good watering and then hoe the ground thoroughly.

Let not those who have no facilities to do all these things despair because much might be accomplished where the interest is great, and even if we are obliged to sow directly outside, providing we thoroughly prepare the soil in some such manner as here advised, and if our subsequent treatment is of the right kind, very gratifying results may follow. If we must sow in the open, let us make drills about two or three inches deep on top of the prepared trenches and sow just as early as possible, putting the seeds about an inch apart, so as to allow for losses, then if they come up fairly thick, take out enough to leave the plants from six to eight inches apart.

Supports.

Going back to our plants which we left just planted out, it is advisable to place all around them some bushy brush about a foot or so high, as it will afford some slight protection from cold biting winds, which may be expected at this early season and will give the plants the comforting feeling of having something at hand to cling to as soon as they feel the need of it. For permanent supports for sweet peas, there is nothing better than good brush six to eight feet tall set firmly in the ground, but as this is sometimes rather difficult to obtain, a fairly good substitute will be found in large meshed poultry wire nailed to posts.

Having provided good supports for the plants, the routine work will be to keep the ground hoed as frequently as possible and to prevent overcrowding. A little judicious thinning will occasionally have to be practiced by cutting away superfluous shoots. If flower buds should appear before the plants have reached about three feet in height, it will be a good plan to disbud them, as too early flowering will militate against the future well-being of the plant, but when the plants have acquired the requisite height and strength and flowering begins in earnest, you must be sure to keep all flowers picked clean as if any go to seed the plants will soon cease growing, and your season will come to an abrupt end.

Feeding.

After the plants have been flowering for some length of time, the careful grower may note that the flower stems are getting shorter and that there is a slackening of growth generally. Here at this time is where some quick acting manure, well watered, will give the required stimulation and in a few days growth will be back to the normal and may be kept there by repetition of some such methods as have just been suggested.

Fertilizers.

The question might well be asked here, what shall we use to feed and stimulate our plants into growth? I do not believe there is any one thing very much better than another, as long as good judgment is used in the application, but I would especially urge beginners to err on the short side, rather than over-do it. I have found that after the plants have been flowering for a week or two they will generally stand a light feeding once a week and by the application of two pounds of nitrate of potash dissolved in fifty gallons of water and this amount applied to each fifty foot row every two weeks, alternating the week between with about five pounds of superphosphate sprinkled along each row, will keep the plants tuned up to their work at all times. If weak liquid manure is available an occasional dose will be beneficial or a sprinkling of soot well watered in will do good not only as food, but as a tonic, which seems to brighten and intensify the colors immensely.

Mulching.

Mulching forms an important part in the treatment of the sweet pea during our hot dry summers, but care must be exercised here, as elsewhere. The two danger points to avoid, are getting it on too early and using too close material. Wait until the ground has thoroughly warmed up, which will not be till nearly the first of July, and conserve the moisture in the meantime by frequent hoeings. If a mulch is put on too early in the season the ground is kept cold by the exclusion of the sun's rays, and the bacterial flora which inhabits the soil (and upon which all plants must depend in a large measure for their sustenance) are retarded in their development, and because this bacterial flora must have a free supply of air, the mulch should be of a loose nature, straw litter or dried leaves.

Shading.

Unfortunately some of the finest kinds of orange, salmon, scarlet and crimson shades must be protected from the sun if we would have them at their best and so to facilitate the application of shade these varieties should be planted together. Light cheesecloth is sometimes used to stretch over these kinds that burn, as it is quite inexpensive, but a more satisfactory shade is made by erecting a

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The "SPENCER" Type of Sweet Peas

"The Seal of Quality"

Burpee's Unequaled List for 1914. Arranged Alphabetically. Choicest Re-selected Stocks Grown on "Floradale Farm."

SPENCER SWEET PEAS are a great specialty with us! We were the first to grow the seed in America, the stock having been entrusted to us before introduction, even in England, of the original **Countess Spencer.** We have grown "the original Beauty" and its many "sportive" children with painstaking care each season since. There are but few other growers—either in England or America—who can supply an equal assortment of **True** RE-SELECTED "SPENCERS" that are uniformly of such choice quality. Seedsmen and planters generally can see how superior our stocks now are by the trials at FORDHOOK FARMS next June or July, while those who may be in California are invited also to inspect the growing crops at our FLORADALE FARM in the beautiful Lompoc Valley. Every planter's garden, however, is really a trial ground and we shall be quite content if any "Doubting Thomas" will send us only a portion of his order and **note the difference** in character of flowers produced!

		Per Pkt.	Per Oz.	Per ¼ lb.	Per Lb.
3102	**Afterglow.** Per pkt. of eight seeds, 15c.	$0.25			
3106	**American Spencer.** Red flakes on white ground	.10	$0.30	$0.85	$3.00
3108	**Apple Blossom Spencer (Burpee's).** Rose and pink	.10	.30	.85	3.00
3110	**Arthur Green.** Maroon shaded violet.	.10			
3112	**Asta Ohn.** A charming soft lavender.	.10	.40	1.50	
3114	**Aurora Spencer (Burpee's).** Cream mottled orange	.10	.25	.75	2.50
3118	**Beatrice Spencer.** White ground, tinted pink and buff	.10	.20	.60	2.25
3122	**Blanche Ferry Spencer.** Rose standard, white wings	.10	.40	1.50	
3124	**Blue Jacket.** A fine rich dark blue self	.15	.75		
3128	**Captivation Spencer (Burpee's).** Rosy wine red	.10	.35		
3132	**Charm (Burpee's).** Per pkt. of twenty seeds, 15c.	.25			
3134	**Constance Oliver.** Delicate pink, suffused cream	.10	.30	.85	3.00
3138	**Countess Spencer.** A soft rose-pink	.10	.20	.60	2.25
3140	**Dainty Spencer (Burpee's).** White, edged with rose	.10	.30	.85	3.00
3142	**Decorator (Burpee's).** Per pkt. of ten seeds, 15c.	.25			
3144	**Duplex Spencer.** Beautiful cream-pink	.15	.65		
3146	**Earl Spencer.** Brilliant salmon-orange	.15			
3148	**Edith Taylor.** Bright salmon rose	.15	.75	2.50	9.00
3150	**Elfrida Pearson.** Light pink. Pkt. (twenty seeds), 15c.	.25			
3154	**Ethel Roosevelt (Burpee's).** Pink flakings on cream ground	.10	.35	1.00	3.50
3160	**Florence Morse Spencer.** Beautiful light pink	.10	.30	.85	3.00
3162	**Florence Nightingale (Burpee's).** Best lavender **Spencer**	.10	.40	1.50	
3164	**Florrie.** Rich pastel shades of rosy crimson lake	.15	.45	1.50	4.00
3170	**Gaiety Spencer.** White striped with rose-crimson	.10	.40	1.50	
3172	**George Herbert.** Bright rosy-carmine.	.10	.20	.60	2.25
3176	**Gladys Burt.** Salmon-pink on primrose ground	.10	.35	1.00	3.75
3178	**Helen Grosvenor.** A lovely bright orange-pink	.10	.40	1.10	4.00
3180	**Helen Lewis.** Standard orange; wings orange-rose	.10	.30	.85	3.50
3182	**Helen Pierce Spencer.** White mottled blue	.15			
3184	**Hercules.** A very large rich pink of excellent form	.15	.65	2.25	8.00
3185	**Illuminator.** Rose, heavily suffused salmon-orange. Per pkt. of 12 seeds, 15 cts.	.25			
3186	**Irish Belle, or "Dream" (Burpee's).** Lilac flushed pink	.15	.65		
3187	**Isobel Malcolm.** A beautiful cream color	.10	.45		
3188	**King Edward Spencer (Burpee's).** Carmine scarlet	.10	.25	.75	2.50
3490	**King White.** The best pure white. Per. pkt. of 15 seeds, 15c.	.25			
3492	**Lady Evelyn Eyre.** Blush pink on white ground	.15	.45	1.35	5.00
3496	**Loyalty.** White ground, flaked with violet	.15	.65		
3198	**Margaret Atlee.** Rich pink and salmon on cream ground. Per pkt. of 20 seeds, 15c	.25			
3500	**Margaret Madison.** A beautiful clear azure-blue	$0.15			
3506	**Martha Washington.** White suffused light rose	.10	.25	.75	$2.75
3514	**Mercia.** Buff-pink on cream ground.	.10			
3516	**Mrs. A. Ireland.** Buff ground suffused rose	.10	.30	.85	3.00
3520	**Mrs. C. W. Breadmore.** Buff ground, edged with pink	.10	.25	.75	2.50
3522	**Mrs. Heslington.** Lavender, lightly flushed rose pink	.10			
3524	**Mrs. Hugh Dickson.** Pink-apricot on cream ground	.10	.30	.85	3.25
3528	**Mrs. Routzahn (Burpee's).** An apricot pink	.10	.35	1.00	3.75
3530	**Mrs. Townsend.** White with picotee edge of blue	.10			
3532	**Mrs. W. J. Unwin.** White flaked with orange-scarlet	.10	.65		
3533	**Mrs. T. W. Warren.** White ground penciled deep blue	.15	.75		
3534	**Nubian.** Beautiful maroon	.10	.65		
3539	**Orchid (Burpee's).** Per pkt. of six seeds, 15c.	.25			
3542	**Othello Spencer (Burpee's).** Rich deep maroon	.10	.30	.85	3.00
3543	**Pearl Gray Spencer.** Dove gray suffused rose	.15			
3545	**Primrose Spencer (Burpee's).** Crop very short	.10	.40	1.35	5.00
3547	**Prince George.** Rosy lilac veined rose. A pastel shade.	.15	.90	3.00	
3551	**Purple Prince Spencer (Burpee's).**	.10	.30	.85	3.00
3554	**Queen Victoria Spencer (Burpee's).** A rosy primrose	.10	.40	1.10	4.00
3565	**Rosabelle.** Rich rose-carmine. Very large and fine	.15	1.25	4.50	
3570	**Scarlet Emperor.** A dark shade of scarlet	.15			
3572	**Senator Spencer (Burpee's).** Heliotrope striped with claret	.10	.30	.85	3.00
3575	**Stirling Stent.** Per pkt. of fifteen seeds, 15c.	.25			
3579	**Tennant Spencer.** Spencer form of **Dorothy Tennant**	.10	.50	1.75	
3581	**Thomas Stevenson.** Orange-scarlet	.15	.65		
3589	**Wedgewood.** Rich azure blue. Per pkt. of 12 seeds, 15c.	.25			
3590	**White Spencer (Burpee's).** The best white	.10	.40	1.10	4.00
3593	**W. T. Hutchins (Burpee's).** Light apricot pink	.10	.35	1.00	3.50
3599	**The New "Burpee-Blend" for 1913**	.10	.25	.75	2.50

BURPEE'S BLUE LIST FOR 1914

The most complete catalogue published for **Market Gardeners, Truckers and Florists.** For the planter who "knows" it contains complete lists of all that is best in vegetables and flowers, while the grower who is uncertain as to the best varieties suited for his purpose may be guided by the bull's eye ⊙ placed after what is known to be best. In addition full descriptions are given many new and most valuable varieties.

BURPEE'S BLUE LIST FOR 1914 contains **148** pages with hundreds of halftone and engraved illustrations. Within the pages of this catalogue we have condensed an experience of thirty-five years both in handling and the actual growing of seeds.

If you garden for profit (that is, sell your products in the market) you are entitled to a copy of this complete and easily understood catalogue, but if you are a private planter please do not ask for a copy, as we must protect the Market Gardener, Trucker and Florist.

W. Atlee Burpee & Co.

"SEEDS THAT GROW"

PHILADELPHIA, PA.

CHRYSANTHEMUMS Our Novelties for 1914 are ready for immediate delivery on such varieties as Meudon, Jas. Fraser, Mrs. R. H. Boggs, Mrs. Paul Moore, Daily Mail and Mrs. Ernest Wild at $2.00 plant; $20.00 per dozen. Chieftain, $5.00 per dozen.

We had over twenty acres of 'Mums growing outdoors last year in order to guarantee our stock being propagated only from plants that had not been fed or forced in any way.

Send for our catalogue of over four hundred and fifty varieties, including the Gold Medal Singles; the Caprice Family, which we introduced last year; the Early Flowering varieties which are becoming the rage and all other Standard varieties.

CHARLES H. TOTTY, Madison, N. J.

PINK SUPREME THE CARNATION FOR MONEY PRODUCTION

Early, free, persistent, makes ideal plants in field; lifts easily. Color, light-shell pink. Does not fade in hot weather. Tested thoroughly by five competent growers and easily outblooms all others of its color. Awarded Report of Merit by Gardeners and Florists' Club of Boston, 1913. First prize at show of Co-operative Flower Market, April, 1913. In heavy demand at every high class store in Boston.

Rooted Cuttings Now Ready. $10 per 100, $100 per 1000

J. H. LEACH & SON NO. EASTON, MASS. *Or* J. M. COHEN, Co-operative Flower Market 2 PARK STREET, BOSTON, MASS.

light wooden framework and by nailing ordinary builder's lath spaced about an inch apart. Through this the plants seem to get all the light necessary, a free circulation of air, and the flowers will not burn.

Labeling.

If there is one thing more exasperating than another to the sweet pea grower, it is to find that when his plants come into flower the varieties are more or less mixed. This is more likely to happen where the plants are sown and grown in pots. To avoid this, we recommend a label in each pot and when planted out make a plan and keep a record of the location of each variety; by such means confusion and annoyance will be avoided. This will be of great importance if we go in for crossing and seed.

Crossing and Seed Saving.

To those who have had no experience in attempting to cross fertilize the sweet pea some puzzling situations may occur, but they must learn that several days before the blossom opens the pollen is ripe, the stigma is ready, and fertilization has taken place, if it is ever going to take place. Therefore, being equipped with this knowledge, we proceed to carefully open the keel of the bud and upon examination of the anthers with a pocket lens we determine whether we are too late by finding out if any of the pollen grains are shed or ready to shed. Provided we find them intact, we cut all the anthers clear away, leaving only the stigma, and upon this stigma apply the pollen from the flower which you wish to make the cross with and your work is complete. It is well to fertilize all the flowers on a stem as in that way you are more sure to get the cross you are aiming at, or if you do not think that advisable, cut away the unfertilized flowers. Tie a small durable label to the stem with the records of the cross.

To make sure of good seed, either artificially or naturally fertilized, July is none too early to begin, as the plants are then at the height of their vigor and you get a chance to get your seeds ripe before the fall rains set in. If you determine to save your own seed you will go carefully over your rows and remove all those not true to type (and, alas, there are always a goodly number) before allowing any seed to set. In raising and flowering your crosses you will have many disappointments as well as some delightful experiences and it is well to remember that it takes several years for a cross to settle down to a fixed type, but this delightful uncertainty is only one of the many charms of raising new kinds.

Insects and Diseases.

Even the dainty fairy-like sweet pea is not exempt from the attacks of insect pests and among these green fly is perhaps the worst. The only remedy for this pest, is some form of nicotine spray, of which there are a number on the market, and a careful grower will not let this or any other insect get a very strong hold on his plants before he takes measures for its eradication. Red spider may be kept in check in water applied forcibly with the hose, and thrips, like the green fly, must be fought with a nicotine spray .

Of the fungoid diseases, mildew is at once the most common and perhaps the hardest to deal with, for while there are many preparations on the market for the prevention and cure of mildew, the best way to combat it is to keep up the natural resistance of the plants by conserving their vigor as long as possible. A soil well supplied with potash is supposed to preserve the plants from attacks of the so-called streak disease, but healthy plants set out on new ground annually is the surest way of avoiding all the diseases.

Various Methods of Planting.

No one should think that rows are the best and only means of planting the sweet peas. Rows undoubtedly are the most satisfactory means where cut flowers and economy of labor are the main objectives, but where a pleasing artistic effect is desired, then we may plant in clumps at the back of herbaceous borders, or in beds or in curved lines, or yet in tubs for standing on terraces or verandas, or they may be planted to hide an unsightly wall or building; in fact, there is almost endless scope for the grower's ability in forming harmonious color combinations and pleasing effects in general by the proper disposition of this charming plant.

What Varieties to Grow.

There is such a host of varieties to choose from that the prospective grower may well be bewildered in making a choice, and with the idea that it may aid some, I will name a few of each color, that, having grown them myself, I know to be good:

White—King White, Snowdon, Nora Unwin.

New Red Rose
"FRANCIS SCOTT KEY"

A Seedling of Cardinal Crossed with an Unnamed Red Seedling

Flowers large to very large with sixty and more petals opening to a high centre. Averages longer and stiffer stems than any Hybrid Tea Rose I know of under glass, A hardy and easy grower. Every florist can grow it.

It does not need coaxing or boosting. Stock limited. Plants Ready for Delivery from now on

Strong plants, own root, 2 1-2 in. pots, $30 per 100; $7 for 12 plants; $12 for 25 plants. Cash with order

JOHN COOK 318 N. CHARLES STREET BALTIMORE, MD.

Five New Single Chrysanthemums

Money makers that every florist should grow:

Place your order now; Spring delivery from 2¼-in. pots.

MENSA A grand, pure white, large flat flower, with yellow eye, several rows of heavy petals of great substance. Fine habit. A splendid shipper and keeper. $1.50 per dozen, $10.00 per 100.

MISS MARY POPE A charming pink mid-October; large, graceful flowers borne erect on long stems; very beautiful in sprays. Excellent habit and free. $1.50 per dozen, $10.00 per 100.

CHARLES KINGSLEY Rich buttercup yellow; large, bold flowers of great substance. Splendid habit—very free; good in every way; one of the best yellows grown. $1.50 per dozen, $10.00 per 100.

YELLOW MENSA 1913 Novelty. A beautiful light yellow sport from the popular Mensa; same substance and habit as its parent. Large flowers on stiff stems. $2.50 per dozen, $15.00 per 100.

CELIA Leading Novelty. Exquisite lemon yellow; large flowers with foliage well up to the blossoms. Stiff habit—exceedingly fine for cutting in sprays. $2.50 per dozen, $15.00 per 100.

SINGLES

For 60c. per dozen, $4.00 per 100.

Jessie Curtis (crimson); **Hilda Wells** (Tuscan red, yellow at base of florets); **Mary Richardson** (Salmon and gold); **Mrs. Heneage** (Anemone, brilliant yellow).

POMPONS

50c. per dozen, $3.00 per 100.

Lula (white); **Mrs. Frank Beu**, syn. **Souvenir d'Or** (orange and bronze); **Magnificent** (light bronze); **Savannah** (clear yellow); **Rev. W. Hoffman** (bronze tipped yellow).

FRANK P. PUTNAM

P. O. Box 12

Lowell, Mass.

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND

Princess Dagmar

Without Doubt

The Best Crimson Carnation in Existence

Oraers booked now for February delivery

Rooted Cuttings: $12.00 per 100, $100.00 per 1000

PATTEN & CO., TEWKSBURY, MASS.

New Variegated Carnation

MRS. B. P. CHENEY

Strong Rooted Cuttings for February Delivery

$12.00 per 100, $100.00 per 1000. JOHN BARR, So. Natick, Mass.

CHRYSANTHEMUMS

All the Best Commercial Kinds

Including Pompons, Anemones, Single and Early-flowering. Kindly let us quote your requirements.

ELMER D. SMITH & CO.

ADRIAN, MICH.

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost. Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

You Cannot Possibly Go Wrong

by investing in the

PHILADELPHIA Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000

2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.

1218 Betz Building

Philadelphia, Pa.

New Red Carnation Prince Edward

Early free bloomer, long stem, non-splitter; a most profitable variety. Rooted Cuttings, $5.00 per 100.

A. BEGEROW

15th St. & Clinton Ave., NEWARK, N. J.

When writing to advertisers kindly mention HORTICULTURE.

Cream — Dobbie's Cream, Primrose Beauty, Isabel Malcolm.
Lavender — Orchid — R. F. Felton, Mrs. Heslington.
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Crimson—Maud Holmes, King Edward Spencer.
Dark Blue—Navy Paradise, Lord Nelson Spencer.
Cream Pink—Mrs. Hugh Dickson, Doris Usher, Mrs. Routzahn.
Pink—Margaret Atlee, Hercules, Countess Spencer.
Rose Pink—John Ingram, George Herbert, Rosabelle.
Orange Pink—Edrom Beauty, Helen Lewis.
Orange Scarlet — Edna Unwin, Thos. Stevenson.

The following dozen kinds are bicolors, flaked, striped and mottled, but are wonderfully fine things and should be grown by everyone that can afford the space:

Afterglow, Prince George, Bertie Usher, Mrs. W. J. Unwin, Arthur Green, Senator Spencer, Helen Pierce Spencer, Inspector, Melba, Charles Foster, Agricola and Mrs. Cuthbertson.

To those sweet pea enthusiasts who would get a more extended knowledge of their favorite flower than is possible from a brief half hour's paper, I would commend them to the following books: "The Sweet Pea Annual" issued by the National Sweet Pea Society of Great Britian, or Walter P. Wright's "Book About Sweet Peas," or "The Modern Culture of Sweet Peas" by Thomas Stevenson, but above all show your interest by joining the American Sweet Pea Society and attend its exhibition here in this building on June 28 and 29.

The Rev. W. T. Hutchins said of the sweet pea: "The sweet pea has a keel that was meant to seek all shores; it has wings that were meant to fly across all continents; it has a standard which is friendly to all nations; and it has a fragrance like the universal Gospel, yea, a sweet prophecy of welcome every where which has been abundantly fulfilled."



KILLARNEY BRILLIANT

The best Rose we have ever introduced. If your order has not been placed

ORDER NOW

We have a splendid lot of Own Root and Grafted plants that will be ready to ship the last of February.

Own Root, $30.00 per 100; $250.00 per 1000
Grafted, 35.00 per 100; 300.00 per 1000
Plants from 2 1-2 inch pots

Address all orders to

ROBERT SCOTT & SON
SHARON HILL, - - DELAWARE CO., PA.



Improved Golden Chadwick

(*Pollworth*)

The Chadwick family of Chrysanthemums are the highest type of the commercial varieties, and any sport of Chadwick that is an improvement will be welcomed. This new variety has its origin in the West. We have taken part of the stock and will distribute the variety the coming season. It is described as identical with the parent in all respects except form and color of the bloom. It is a perfectly formed flower and a deeper golden yellow in color.

It is a variety that will be found all that the name implies. It means better late mums, and you need it.

Our Catalog for the Price.

Improved Golden Chadwick

A. N. PIERSON, Inc., Cromwell, Conn.

FERNS FOR DISHES

$3.50 per 100; $30.00 per 1000; 500 at 1000 rates

All the best varieties. Stock is very fine

WHITMANI AND BOSTON FERNS

6 in., 50c; 7 in., 75c. and 8 in., $1.00 each

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Gale Ave. and Madison St.
RIVER FOREST, - ILL.

ORCHIDS
ESTABLISHED PLANTS AND FRESHLY IMPORTED
Julius Roehrs Co.
Rutherford, N. J.

BEST PALMS
All Varieties. All Sizes.
Send for Price List.
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We specialize in Orchids and can offer you anything you may need in that line at attractive prices.
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"Get them at Dreer's"

Tuberous Rooted Begonias, Gloxinias, Fancy Leaved Caladiums

Our Usual Superior Strain

You Can Buy Cheaper but Not Better Stock.

BEGONIAS, Single in Separate Colors. Scarlet, crimson, rose, white, yellow and orange, 40c. per dozen; $2.50 per 100; $22.50 per 1000.

BEGONIAS, Single in Choicest Mixture. 35c. per dozen; $2.25 per 100; $20.00 per 1000.

BEGONIAS, Double in Separate Colors. Scarlet, rose, white and yellow, 60c. per dozen; $4.50 per 100; $40.00 per 1000.

BEGONIAS, Double in Choicest Mixture. 50c. per dozen; $4.00 per 100; $35.00 per 1000.

BEGONIAS, Frilled in Separate Colors. Scarlet, white, pink and yellow. These are with wavy and frilled petals, like some of the newer Petunias. 85c. per dozen; $6.00 per 100.

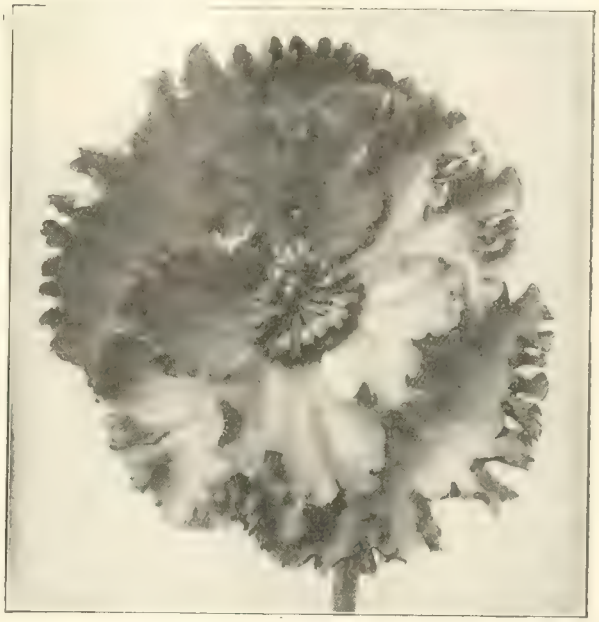
BEGONIAS, Dwarf Hybrid Lafayette. Brilliant crimson-scarlet, $1.50 per dozen; $12.00 per 100.

BEGONIAS, Dwarf Hybrid Duke Zeppelin. Pure rich scarlet, $1.25 per dozen; $8.00 per 100.

CALADIUMS, Fancy Leaved. The finest collection and the most extensive stock in America. Choice Standard Varieties, $1.75 per dozen; $12.00 per 100; $100.00 per 1000. Choice Rare and New Varieties, $2.25 per dozen; $15.00 per 100; $140.00 per 1000. Recent Introductions, $3.50 per dozen; $25.00 per 100. Choicest Mixture, $1.50 per dozen; $10.00 per 100; $95.00 per 1000.

GLOXINIAS, Dreer's Superb in Choicest Mixture or in Separate Colors. As blue, red, white, red with white edge, and blue with white edge, 60c. per dozen; $3.50 per 100; $30.00 per 1000.

GLOXINIAS, New Emperor (Hybrida Imperialis) in choicest mixed varieties, 85c. per dozen; $6.00 per 100.



FRILLED TUBEROUS BEGONIA.

HENRY A. DREER, Inc. 714-716 CHESTNUT STREET PHILADELPHIA, PA.

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A large and complete assortment of

Evergreen and Deciduous Trees, Shrubs, Roses, Vines, Herbaceous Perennials and Bedding Plants

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PALMS AND GENERAL DECORATIVE PLANTS
CONIFERS, SHADE AND ORNAMENTAL TREES

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THE FRAMINGHAM NURSERIES

200 ACRES,
TREES, SHRUBS,
EVERGREENS,
VINES, ROSES, ETC.

DEAL TRADE MARK

FINE STOCK OF
RHODODENDRONS,
KALMIAS AND
ANDROMEDAS.

Send for Price List

W. B. WHITTIER & CO. - - - FRAMINGHAM, MASS.

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Write for Samples and Prices

25,000 Pachysandra Terminalis, 10,000 Taxus Cuspidata Brevifolia out of Pots and Field-Grown for Lining out

Our Catalogue for the Asking

OLD-TOWN NURSERIES

M. P. HAENDLER, Prop. SOUTH NATICK, MASS.

HARDY NORTHERN GROWN NURSERY STOCK

WE GROW EVERYTHING FOR PLANTING THE HOME GROUNDS
A GENERAL ASSORTMENT OF

Trees, Shrubs, Vines, Roses and Herbaceous Perennials, Etc., Etc.

Our Illustrated and Descriptive Catalogue for the asking

THE BAY STATE NURSERIES, North Abington, Mass.

Nursery Stock

Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

Write for Trade List.

W. & T. SMITH COMPANY, Geneva, N. Y.

Poinsettia Pulcherrima

Nice strong plants from 2 1-2-in. pots, $6.00 per 100; $55.00 per 1000

AZALEAS, CYCLAMEN, LILACS

A. SCHULTHEIS
COLLEGE POINT, N. Y.

HOLLAND NURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS, AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St., Weehawken Heights P. O. Box 1 Hoboken, N. J.

GIANT ONIONS

Cranston's Excelsior, Ailsa Craig, Gibraltar Giant

Each of the foregoing sorts . . . . Packet, 25c.; Ounce, 50c.

R. & J. FARQUHAR & CO., BOSTON MASS.

Snapdragons----New and True Winter Flowering

I now offer this tested strain for the first time, in two distinct colors — **Pure White** and **Golden Yellow.** This novelty has been grown and developed for the past ten years by me and has proved to be continuous and profitable **Winter Bloomers,** producing a reliable mid-winter cut-flower crop.

Well rooted cuttings $10.00 per 100, *to the trade only.* Stock limited. Orders booked now, for deliveries in rotation after March 1st. Can also be obtained from J. Breck & Sons, Boston, Mass.

H. HUEBNER, Groton, Mass.

HELP WANTED

WANTED—Single man, thoroughly experienced in forcing Cucumbers, Tomatoes and other vegetables; one who is steady and reliable, and can furnish good recommendations. No other need apply. We have an attractive proposition for the right man. L. E. DAYTON, R. F. D. No. 2, Norfolk, Va.

FOR SALE

FOR SALE—Ten Miles from Boston

9 Acres of land, 3 greenhouses 20 x 200, 50-h. p. boiler, 7-room bungalow, all modern improvements, nearly new small stable, coal for season all in, everything in A-1 condition. Net income $3,000. Will sell for assessed value. Address "N," care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

MISCELLANEOUS

BUSINESS OPPORTUNITY.

A correspondent near Philadelphia whose good standing is well known to us, writes: "I have about thirty acres of very fine land, suitable for nursery business, and am anxious to get hold of a good, live, young fellow, one who is up in this line of work and a hustler, to go into the nursery stock with me. I do not think there will be any trouble in giving him a nice line of trade, but would not consider anyone unless he had some capital and thoroughly understood how to run it.

"Have frequent inquiries for the laying out and fixing of grounds, furnishing material, etc., for the work. This could be handled as a nice profitable investment for the right man."

Address in confidence GEORGE E MEYER, care George C. Watson, Dobson Bldg., 9th and Market Sts., Philadelphia, Pa.

BRITISH HORTICULTURE.

The Anglo American Exposition.

At the Anglo American exposition to be held at Shepherds Bush, London, this year, every effort will be made to secure a thorough representation of the highest forms of American and British gardening. This section is being organized by a committee thoroughly representative of horticulture, arboriculture and forestry. Adequate provision has been made for the display of rock and water gardening of the most varied character. Roses will, of course, have a big slice of the space set apart for them. Ornamental trees and shrubs are also to be seen in great variety. The outdoor bedding will be in every way worthy of the important exposition. The opening takes place in May and the exposition will be open for six months.

A Shortage of Flowers.

There has been a shortage of flowers on the London market. At the time of writing (Jan. 16th) the outlook is very serious for the street vendors depending upon this class of trade for their livelihood. At this period of the year there is usually a big supply of French flowers available, such as mimosa, violets, and narcissi. Owing to the severe weather there has been an unusual shortage from this source. The street sellers have had to fall back on artificial flowers. Supplies from the Scilly Isles and Guernsey will soon be upon the market, and this will relieve the situation.

W. H. ADSETT.

NEW INCORPORATION.

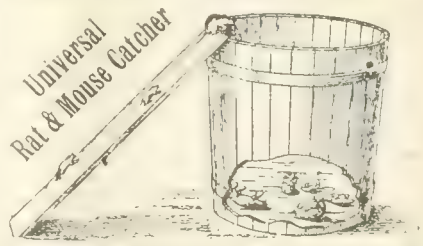
Youngstown, O. The Leisch Implement Company, capital stock, $25,000.

NEWS NOTES.

Boston, Mass.—Mrs. Horatio N. Slater is to establish an Italian garden at the corner of Beacon and Hereford streets this spring.

Boston, Mass.—The council has voted to appropriate $25,000 of the Parkman fund for the building of the foundation of the proposed new horticultural building in the Fenway.

New York, N. Y.—The first meeting of the creditors of the bankrupt firm of Wm. Hagemann & Co., will be held at the office of Seaman Miller, 2 Rector street, New York city, on Feb. 13th, at 3 P. M.



Cleans a building of Rats and Mice in short time, keeps it cleaned, for it is always ready for use. Made of galvanized iron, can't get out of order, lasts for years. Large number can be caught daily. Go to Catcher mornings, remove device inside, which only takes few seconds, take out dead rats and mice, replace device, it is ready for another catch. Small piece cheese is used, doing away with poisons. Catcher is 18 inches high, 10 inches diameter. When rats pass device they die, no marks left on them. Catcher is always clean. One of these Catchers set in a livery stable in Scranton, Pa., caught over 100 rats in a month. One sent prepaid to any place in United States upon receipt of $3. Catcher, 8 in. high, for mice only, prepaid $1. On account of shipping charges being prepaid, remittance is requested with order. H. D. SWARTS,
Inventor and Manufacturer, Scranton, Pa.

THERE IS NO INDIAN SIGN ON

Boddington's Quality Cannas

QUALITY HIGHEST PRICES LOWEST

F. O. B. NEW YORK OR CHICAGO

THE FIVE LEADING CANNAS IN THEIR RESPECTIVE COLORS

THE BEST BRONZE CANNA KING HUMBERT. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

THE BEST RED CANNA METEOR. 4 feet. $1.00 per doz.; $8.00 per 100; $75.00 per 1000.

THE BEST PINK CANNA ROSEA GIGANTEA. 3½ feet. 60 cts. per doz.; $1.75 per 100; $15.00 per 1000.

THE BEST YELLOW CANNA GUSTAV GUMPPER. 3½ to 4 feet. $1.00 per doz.; $8.00 per 100; $75.00 per 1000.

THE BEST WHITE CANNA MONT BLANC. 3½ feet high. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Red-flowering, Green Foliage

LOUISIANA. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

A. BOUVIER. 5 feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.

BEAUTE POITEVINE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

BLACK PRINCE. 3 to 4 feet. 25 cts. per doz.; $2.25 per 100; $20.00 per 1000.

CHARLES HENDERSON. 4 feet. 25 cts. per doz.; $1.85 per 100; $16.00 per 1000.

CRIMSON BEDDER. 3 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

DUKE OF MARLBORO. 4½ feet. 25 cts. per doz.; $2.00 per 100; $18.00 per 1000.

J. D. EISELE. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

LAPRESS. 2 to 2½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

PRESIDENT CLEVELAND. 3 feet. 25 cts. per doz.; $2.00 per 100; $17.50 per 1000.

PRES. McKINLEY. 2½ to 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

PRES. MEYER. 4 feet. 30 cts. per doz.; $2.25 per 100; $20.00 per 1000.

PILLAR OF FIRE. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

TARRYTOWN. 3½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

White and Cream Shades

ALSACE. 3½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.

Pink-flowering Cannas

L. PATRY. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

LOUISE. 5 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

MLLE. BERAT. 4½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.

VENUS. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Bronze-leaved, Red-flowering Cannas

BRANDYWINE. 4 to 5 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

DAVID HARUM. 3½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

EGANDALE. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

KING HUMBERT. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

LEONARD VAUGHAN. 4½ feet. $3.75 per 100; $35.00 per 1000.

MUSAEFOLIA. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

ROBUSTA. 6 to 8 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

SHENANDOAH. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

Red, Gold-edged, Spotted and Yellow Cannas

DUKE OF YORK. 4 to 5 feet. 15 cts. each; 60 cts. per doz.; $4.25 per 100; $40.00 per 1000.

GLADIATOR. 4 feet. 30 cts. per doz.; $2.00 per 100; $18.00 per 1000.

GLADIOFLORA. 3½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.

JEAN TISSOT. 5 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

MAD. CROZY. 5½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

QUEEN CHARLOTTE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

PREMIER. 2½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

SOUV. DE A. CROZY. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orange Shades

WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.

PENNSYLVANIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

MRS. KATE GRAY. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orchid-flowering Cannas

ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

AUSTRIA. 5 feet. 30 cts. per doz. $1.85 per 100; $16.00 per 1000.

INDIANA. 6 feet. 35 cts. per doz. $2.00 per 100; $17.00 per 1000.

ITALIA. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

Newer Cannas

DR. BUDINGEN. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

DR. ROBERT FUNCKE. 4½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

FURST BISMARCK. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

GRAND CHANCELLOR BULOW. 5 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

WILLIAM SAUNDERS. 4½ feet. 50 cts. per doz.; $4.75 per 100; $45.00 per 1000.

FOR FULL DESCRIPTIONS SEE OUR CATALOGUE—MAILED FREE.

We are the largest [illegible] of Cannas in the world. Our prices on Cannas will be in comparison with any house in the Canna business.

Our Cannas are fully [illegible] so that three and one-half feet are strong, sound, dormant, and are packed 250 in a box. Two can be [illegible] and shipped as one. One box of 250 sold at [illegible] rate. It is cheaper for you to buy a box of 250 than [illegible] at [illegible] rate. Write for [illegible] prices on quantities.

If any Cannas are not found [illegible] it may be understood that they are superseded by the foregoing. If selection is left to us we will substitute or send only the best for all purposes.

Chicago and Western Agents for our Cannas, ONLY—
WINTERSON'S SEED STORE, 166 N. Wabash Avenue, Chicago

ARTHUR T. BODDINGTON

SEEDSMAN 342 West 14th Street, NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Canners' Convention Exhibits.

The American seed trade is very creditably represented this week at the Canners' Convention being held at Baltimore, Md., Feb. 2-6, in the Fifth Regiment Armory.

J. Bolgiano & Son, Baltimore, Md., have a very large and attractive display. They are advertising their new tomato introduction of this year, the "John Baer." This tomato is attracting much attention from the visiting canners. On account of the quality and scarcity of seed, it is selling at $50.00 per lb. The "Greater Baltimore" tomato seed is also very prominently displayed. All other varieties of tomato seed of any prominence are also found in Bolgiano's exhibit. They have on display a full line of peas, beans and sugar corn. The E. B. Clark Seed Co. of Milford, Conn., have a full line of seed peas, beans, sugar corn and beets. They also have several jars of well selected pods of peas in solution. The Leonard Seed Co. of Chicago, Ill., are showing a very extensive line of sugar corn on the ear, also a sample line of seed peas and beans. John H. Allen Seed Co. of Sheboygan, Wis., are showing an extensive sample line of peas and beans. The Livingston Seed Co. of Columbus, Ohio, are displaying very extensively Livingston's New Stone tomato seed along with "True Blue" seeds in general. W. W. Barnard Co., Chicago, Ill., are showing an extensive sample line of seed peas and beans. Jerome B. Rice Seed Co., Cambridge, N. Y., have a complete line of canners' and picklers' stocks. Rogers Bros., Alpena, Mich., have a very attractive display, showing seed peas and beans. S. D. Woodruff & Sons, Orange, Conn., a full sample line of seed peas and beans. F. H. Woodruff & Sons, Milford, Conn., samples of seed peas and beans. D. M. Ferry & Co., Detroit, Mich., a sample line of seed peas, beans and sugar corn.

Chicago Seed Notes.

At the outlying seed stores about Chicago all hands are busy getting ready for the early orders of the market gardeners, who have been able to work out-of-doors nearly all the winter. The unseasonably warm weather, however, is not believed by the seedsmen to favor the seed trade, as beets, carrots, parsnips, etc., buried in the ground, have been more or less of a loss and made money scarce. Onions, also, have not kept well. Onion sets, on the contrary, are reported by the largest dealers to be showing excellent keeping qualities owing to their fine condition when stored in the fall.

At the four stores of the Leonard Seed Co. seed testing is going on and the filling of orders is well under way. Leonard Clarke, manager of the branch store at 4845 Milwaukee avenue, and one of the coming men in the seed business, devotes much time to studying into the scientific side of the seed question, and is an enthusiast in his work. The Perfection Garden Cultivator for hand use, placed on the market by the Leonard Seed Co. this year, is taking well and several hundreds are now sold. It has four discs which, by a simple changing of the bolts, by the fingers, can be adjusted to any angle, throwing the soil to or from the plants.

PHILADELPHIA NOTES.

The officers of the William Henry Maule Co. have just been announced and are as follows: M. H. Maule, president; Chas. P. Maule, vice-president; Edward C. Dungan, treasurer and general manager; H. E. Maule, secretary. Capital, full paid, $150,000. Incorporated under the laws of the State of Pennsylvania. All branches of the business are now located in the new Maule Bldg., 23rd and Arch streets.

Fred Michell, Jr., is off on a three weeks' trip through Western Pennsylvania. Strictly business. If there's room for New Englanders and Old Englanders in this "God's Own Country," surely "His Own Chosen People" ought to have a look in also in their own bailiwick! Young Ajax has girded up his loins and although he looks and talks as meek as Moses he'll sell you something—if you don't watch out!

Seventeen heads of departments of the Burpee staff were entertained by W. Atlee Burpee at dinner on January 30. The occasion was a very enjoyable one and testified once more to the harmony and good feeling which pervades the Burpee happy family—from its chief down. Whoever said there is no sentiment in business is greatly mistaken. In the hands of a mighty master craftsman like a Burpee sentiment can be welded into an irresistible instrument capable of conquering the world. Mr. and Mrs. Burpee left for a brief vacation south, on the 2nd inst.

Visitors: Maurice Fuld, New York City; B. E. Brotherton, Detroit Mich.; P. Joseph Lynch, New Castle, Ind.; R. T. Brown, Cottage Gardens Co., Queens, N. Y.; James Cumming, Toronto, Canada; Charles H. Seybold, Wilkesbarre, Pa.; William Herbert, Atco, N. J.; M. Henry Lynch, West Grove, Pa.; Fred Chesky, Churchville, Pa.; Charles Vorkeller, South Bethlehem, Pa.; Charles L. Schmidt, Harrisburg, Pa.; J. Pritchard, Bedford Hills, N. Y.; J. D. Cockcroft, Northport, N. Y.

You Can Make Big Cash Profits By Devoting Your Attention To The Sale Of

Asparagus Plumosus Nanus

Plant seed now. When potted Asparagus Plumosus Nanus often sells at $4.00, or over per hundred during June, July and August. Northern greenhouse grown strain Asparagus Plumosus Nanus, $3.25 per 1000; $15.00 per 5000. Asparagus Hatcherii, 100 seeds, 75c.; 1000 seeds, $6.00.

Aster Seed

Queen of the Market

Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choiced Mixed	.20	.65

Wire or write for our 1914 Wholesale Catalog. It will save you money. Contains complete list of best novelties and standard varieties. Get it.

MICHELL'S SEED HOUSE

Dept. Q, 518 Market St., Philadelphia, Pa.

New Crop Seeds

FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.
STAMFORD, CONN.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS 82 Dey St., NEW YORK
and ORANGE, CONN.

A party of the American Agricultural Commission visited, among other European producers, L. Daehnfeldt, of Odense, Denmark, recently.

IRISH SHAMROCKS

The true variety from imported seed. Fine plants, grown cool in 2-in. pots, ready for immediate shipment. **Price $4.00 per 100.**

PETER HENDERSON & CO.
35 and 37 Cortlandt St., New York

SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

BURNETT BROS.

SEEDSMEN

98 Chambers St., NEW YORK

WILSON'S SEEDS SOLD IN NEWARK WILL GROW ANYWHERE

We have arranged for our very special strains of

FLOWER SEEDS FOR FLORISTS

Don't fail to register your name for a copy of our Wholesale Price List—Ready January 1st.

J. J. WILSON SEED CO., Inc., 79 Orange St., Newark, N. J.

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

ONION SETS

226-230 W. KINZIE STREET, CHICAGO

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

COLD STORAGE VALLEY

OF FINEST QUALITY **For Early and Late Forcing**

IN CASES OF 1000, 500 AND 250 PIPS, AT $16.00 PER 1000
ALL EXPENSES PAID
TERMS: 30 DAYS NET, OR 3 PER CENT DISCOUNT FOR CASH WITH ORDER

Corp. of Chas. F. Meyer, 99 Warren St., New York

Commercial Sweet Pea Seed

of my original Winter, also Summer, Varieties, by the ounce or ton. 3000 lbs. surplus of Nora Unwin, Gladys Unwin, Frank Dolby, Countess Spencer, Orange Spencer, King Edward Spencer, and some small lots of summer and winter Grandifloras.

Ask for special low prices on 100 lb. lots.

ANT. C. ZVOLANEK

Sweet Pea Ranch LOMPOC, CALIF.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

Onion Seed

Write us for price on both globe and flat varieties. We are also quoting Onion Sets.

Schilder Bros., CHILLICOTHE, OHIO

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

NEW CROP SEEDS

FOR FLORISTS

Ask for 1913 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No Market St., BOSTON, MASS.

Braslan Seed Growers Company

Large wholesale growers of ONION, LETTUCE, CARROT, RADISH, PARSNIP, PARSLEY, CELERY, ENDIVE, LEEK, SALSIFY and SWEET PEAS.

SAN JOSE, CALIFORNIA

Write for 1914 Contracting Prices

NEW CROP Flower Seeds

ASPARAGUS PLUMOSUS NANUS
Greenhouse grown—per 100 seeds..$ .50
" " " 1000 " .. 4.00

ASTER
Crego, white per oz.....$ .75
" delicate pink " ..... .75
Also all other varieties.

BEGONIA
Gracilis Luminosa, per packet.....$ .25
Semperflorens Vernon, per oz..... 4.00

CINERARIA
Maritima Candidissima, per oz.....$ .20
" " per lb..... 2.00

PANSY
Thorburn Superb Mixture, per oz..$4.00

SALVIA
Splendens per oz.....$1.25
Bonfire " 2.00
Early Dwarf Zurich " 4.00

VINCA
Alba, pure white, per oz.....$ .50
Rosea " ..... .45
" Alba " ..... .50
Mixed " ..... .45

SPIRAEA

	100	1000
Japonica	$3.00	$25.00

LILIUM

	100
L. Longiflorum, 6-8	$3.00

LILY OF THE VALLEY

Prices on Application.

OUR FLORIST'S CATALOG IS READY.
Send a postal for your copy.

J. M. Thorburn & Co.

"The most reliable seeds"
53 Barclay St. (T22) New York, N. Y.

CHOICE SEEDS

FOR PRESENT PLANTING

SHAMROCK. TRUE IRISH, PER OZ., $1.00.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

O. V. ZANGEN

SEEDSMAN, HOBOKEN, N. J.

Mention HORTICULTURE when writing

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

We Will Take Good Care Of All Your Orders
IN WISCONSIN
C. C. POLLWORTH CO.
Milwaukee

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Rutland, Vt.—A. A. Prouse, Center street.

Oakland, Cal.—Clarke Bros., 1129 Clay street.

New London, Ct.—Clark, the florist, New Manwaring bldg.

Reesville, O.—Harry M. Gregory, successor to Wm. Merriweather.

New Bedford, Mass.—Davenport, the Florist, 738 Pleasant street.

STEAMER DEPARTURES

Allan.

Sicilian, Boston-Glasgow.....Feb. 12
Ionian, Boston-Glasgow.....Feb. 19

American.

St. Paul, N. Y.-S'hampton....Feb. 13

Atlantic Transport.

Minneapolis, N. Y.-London..Feb. 14

Cunard.

Mauretania, N. Y.-Liverpool..Feb. 11
Alaunia, Boston-Liverpool....Feb. 17
Campania, N. Y.-Liverpool...Feb. 18

French.

La Provence, N. Y.-Havre...Feb. 11
Chicago, N. Y.-Havre.....Feb. 14

Hamburg-American.

K. Aug. Vic., N. Y.-H'mb'rg.Feb. 12
Pres. Grant, N. Y.-Hamburg..Feb. 14

Holland-America

Potsdam, N. Y.-Rotterdam...Feb. 10

Leyland.

Winifredian, Boston-Liverp'l.Feb. 14

North German Lloyd.

Bremen, N. Y.-Bremen.....Feb. 10
K'nig Albert, N. Y.-Mediter'n.Feb. 14
Pr. Fried. Wil., N. Y.-Bremen.Feb. 17

Red Star.

Finland, N. Y.-Antwerp.....Feb. 11
Zeeland, N. Y.-Antwerp.....Feb. 18

White Star.

Baltic, N. Y.-Liverpool.....Feb. 12
St. Paul, N. Y.-S'hampton....Feb. 18
Oceanic, N. Y.-S'hampton....Feb. 18

FLORISTS' TELEGRAPH DELIVERY

Following is a list of the new members of this Association:

Andrew Bros., 19 Maple Street, Bristol, Conn.

Morgan Floral Co., Fort Morgan, Colorado.

Dobbs & Son, 141-151 S. Division St., Auburn, N. Y.

Baker Bros. Co., Inc., 1013 Houston St., Fort Worth, Texas.

New York.—A new florists' supply house is scheduled to open on Friday, February 6 at 4 West 28th street.

Monroe & Reynolds have opened a new cut flower wholesale commission house at 111 West 28th street. It is stated that this is a temporary location.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

New York
Bloomingdale's
The Largest Floral Establishment in the Metropolis
Best Service — Quick Delivery — Modest Prices
Telegraph Orders Carefully Filled

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
Palmer's
304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St.. West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

NASHVILLE, TENN.
JOY FLORAL COMPANY
Members Florists' Telegraph Delivery Ass'n.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

GUDE BROS. CO FLORISTS 1214 F ST., N.W. WASHINGTON, D.C.
WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Ed. MacMulkin, 194 Boylston St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Hoffman, Mass. Ave.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Andersen, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Milwaukee, Wis.—C. C. Pollworth Co.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Bloomingdale's, E. 59th St.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Mahanoy, Pa.—Mrs. Benj. Heiser succeeds Mrs. Augusta Geiger as florist on West Mahanoy Ave.

Brooklyn, N. Y.—Abraham Hanig has resigned his position as president of the Brooklyn Wholesale Cut Flower Market, Inc.

Northampton, Mass.—Butler & Ullman are the successors of H. W. Field, florist, who is now in California on account of ill health.

Murray Hill, N. J.—Bernard Mazzuno, an employe of the Coddington Florist Company, was arrested on Jan. 29th for the theft of roses from his employers. He was held in $500 bail.

BUSINESS TROUBLES.

New York City.—Cameron & Crowley, 58th St., reported to have "gone up."

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CHICAGO NOTES.

D. R. Freres has so far recovered from a long siege with typhoid fever that he will be out of the hospital this week.

Nickolas Monsen, who has a retail store at 3310 Fullerton avenue, had the misfortune to fall and break his leg just above the ankle, Jan. 30th.

There will be no flower show in Chicago this spring. At a recent meeting of the executive committee of the Horticultural Society of Chicago it was so ruled. A continued shortage of flowers was one of the main reasons.

The United Fertilizer Co., which a year ago took over the business of D. D. Johnson and which has since had its headquarters with Poehlmann Bros., has now moved its office to Buffalo. Wm. F. Kasting and several Chicago florists are interested.

The twenty-five Chicagoans who attended the Cleveland convention are back and report a successful meeting and also a very pleasant time. They also remarked that the eastern carnations are apparently getting more sunshine than the western stock.

If a twelve-inch fall of snow makes a winter, Chicago experienced the real article on January 31st. Traffic was much hindered and the regular Saturday trade among the florists was greatly interfered with. As has been the order of events this season, a rain soon followed.

The florists who have a large shipping trade are expressing their dissatisfaction at the advanced rate from 40c. to 60c. per 100 pounds, made by the express companies, and which went into effect Feb. 1st. A reduction was made on long distance shipments but as florists' shipments are largely under one hundred miles, the additional charge on short distances more than offsets the reduction.

The financial affairs of the H. A. Fisher Co. of Kalamazoo, Mich., are causing considerable comment in the market and it is expected that suit will be begun against them by one of the heavy losers. It seems that while the November bills were unpaid large accounts were run in December and some of the creditors will lose thousands of dollars. In some cases, bills covered a much longer period, but no one seemed to know that there were any bills unpaid except his own.

The Chicago Carnation Company has certainly a trio of fine commercial carnations in the Herald, Peerless Pink and Aviator. In point of earliness The Herald comes first. During last December the grower's record shows a cut of 10,650 blooms from four beds 5 by 150 ft., with no split calyxes in spite of dark weather.

Peerless Pink is also exceptionally fine for cloudy weather. The color is a deep pink, very pleasing, petals full and seemingly held by a calyx that could not burst. The stems are wiry and long and the plants are well covered with buds and blooms. Aviator (1915) is of an entirely different type. It is smaller, of the brightest red and so prolific that the writer predicts that it will be in the "come to stay" class.

White Wonder has supplanted White Enchantress and White Perfection here and as grown here it could hardly be surpassed. Pink Delight is worthy of its name and the records show that it has produced three to one as compared with Enchantress.

Visitors—Wallace R. Pierson, Cromwell, Conn.; J. R. Fotheringham, representing F. R. Pierson, Tarrytown, N. Y.; John A. Evans, Richmond, Ind.; H. E. Philpott, Winnipeg, Man.; Chas. A. Fawcett, representing H. Frank Darrow, N. Y.; Jas. W. Heacock, Wyncote, Pa.; Albert Meir and E. Duff, of the Rentschler Floral Co., Madison, Wis.; Paul M. Palez, Little Rock, Ark.

ALBANY NOTES.

Everybody is pleased to see Harry G. Eyres back on the job once more after his long period of illness.

Pink Pearl rhododendron in small pots fully flowered out in last week of January makes a lovely object. The Rosery had a nice lot of them in last week from Fred. Goldring, the first to be seen this season.

Wm. C. Gloeckner, who runs an up-to-date store not far from the Ten Eyke Hotel, has introduced a very clever and useful card system for following up and verifying delivery of flower orders telegraphed to other cities.

The Albany Cut Flower Exchange after closing up its first year of business finds the situation very satisfactory and encouraging. It has already attained a very pleasant relationship with both branches of the trade, and largely through the genial personality of Manager Tracey.

We saw at Danker's, a few days ago, some pretty fine carnation blooms which did not look familiar, and were informed that they were the variety Delhi, now almost forgotten. These were good enough to remember, however. A pretty plant seen also at this place was Lachenalia tricolor. This pretty flowering bulb should be much more commonly grown for florists' use. The flowers last a long time.

Albany florists are badly bit by the new labor law, which prescribes hours for employees and restrictions in connection therewith greatly at variance with the custom and the peculiar requirements of the flower business. Just how they will be able to adjust their business in conformity to the recent enactments is a problem, but there appears no other alternative than to comply literally with the legal requirements which were undoubtedly aimed at other lines of business but from which the florists are not exempted.

New York, N. Y.—Woodrow & Marketos have leased the large store at 37-39 W. 28th street for ten years. This is the largest store to be occupied by any one florist establishment in the 28th street district. The store proper has an area of 4,000 sq. ft. and the basement is of equal size. It will be used exclusively for the wholesale florist plant business, the store being used as a display room, and the basement, which is reached by a capacious elevator, for receiving stock, potting, etc. They expect to open about Feb. 15th.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

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STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

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HARRY I. RANDALL, Proprietor.

Phone: Park 94

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A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches	high,	$2.50	per doz.	4	24	inches	high,	$5.00 per doz.
2	15	"	"	3.50	" "	5	30	"	"	6.50 " "
3	18	"	"	4.00	" "	6	36	"	"	9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

Personal

S. E. Spencer, of Brookland Gardens, Woburn, Mass., has been serving on the Suffolk County jury for the last four weeks.

J. Edison Smith, florist at the Academy of the Assumption, Wellesley, Mass., was married on January 27th to Miss Bessie C. Dunton at the home of the bride in Dorchester, Mass.

Ben Lipman, who has had charge of the Northside Greenhouses, Columbia City, Ind., for the past three years, has removed to Covington, Ky., where he is to take a position with another concern.

Visitors in Boston: A. E. Thatcher, Bar Harbor, Me.; A. W. Dowling, superintendent for W. S. Kemey, Morristown, N. J.; W. A. Manda, South Orange, N. J.; Frank McMahon, Seabright, N .J.; D. Dean, Little Silver, N. J.

WALTER MOTT'S NOTES BY THE WAY.

Peabody, Mass.

J. M. Ward & Co. report a very good season. Space restricts or more glass would be erected.

Portsmouth, N. H.

Robert Capstick says it will not be long ere his houses will be gone, owing to the land being desired by the Civic Improvement Association for a public park.

Waverley, Mass.

W. W. Edgar Co. have made several improvements to their plant. Enclosing the boiler house meant a big saving in fuel and excellent storage this winter. Easter stock looks promising. The whole establishment will appear very inviting to the host of visitors expected during convention week.

Frank Edgar is located on a hill commanding a grand view of the Hub and vicinity. Although ere many years the property will be too valuable for present use, he intends erecting another large house with the profits from the next season's business.



The Meyer Green
"SILKALINE"
IS THE LONGEST AND STRONGEST IN THE WORLD

And for sale by all the leading florists and supply houses throughout the land. If your jobber does not keep it, write direct to us and we will see that you are fully supplied.

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KOMADA BROS.
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Florist's Refrigerators
Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.
UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

GRAND SPRING EXHIBITION
Under the Auspices of the Horticultural Society of New York and the New York Florists' Club
$12,500 in Premiums
NEW YORK
March 21st to 28, 1914
Are you preparing to exhibit? Have you received the preliminary schedule covering plants? If not, write for a copy without delay. Cut Flower schedules ready January first.
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GARDENIAS

$1.50–$4.00 Doz.

We have quantity as well as quality, and in large lots we can quote special prices. All grades are perfect flowers. The difference is in the size of flowers and length of stem.

The Leo Niessen Co.

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To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS FOR FLORIST'S USE **R** THOSE MADE BY THE

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66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
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Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI February 2	CHICAGO February 2	BUFFALO February 2	PITTSBURG January 26
Am. Beauty, Special	15.00 to 40.00	35.00 to 40.00	60.00 to 75.00	..... to 60.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 30.00	40.00 to 50.00	40.00 to 50.00
" " No. 1	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Killarney, Extra	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00	15.00 to 18.00
" Ordinary	6.00 to 10.00	6.00 to 10.00	4.00 to 6.00	6.00 to 12.00
Richmond, Hillingdon, Extra	10.00 to 15.00	10.00 to 15.00	8.00 to 10.00	10.00 to 15.00
" " Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00 to 10.00	10.00 to 15.00	15.00 to 20.00	8.00 to 12.00
" " " " Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to 20.00	..... to	..... to .....
Carnations, Fancy	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00	..... to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50	2.00 to 3.00
Cattleyas	35.00 to 50.00	35.00 to 50.00	25.00 to 35.00	35.00 to 40.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 12.50	10.00 to 12.00	... to 15.00
Callas	10.00 to 12.50	10.00 to 12.00	10.00 to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	3.00 to 4.00	3.00 to 4.00	..... to 3.00
Freesias	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00
Daffodils	4.00 to 5.00	4.00 to 5.00	3.00 to 4.00	..... to 4.00
Tulips	4.00 to 5.00	2.00 to 5.00	2.50 to 3.00	..... to 4.00
Violets	.75 to 1.00	1.00 to 1.50	.60 to .75	..... to .75
Mignonette	5.00 to 6.00	..... to	2.00 to 5.00	4.00 to 6.00
Daises	1.00 to 1.50	..... to	1.00 to 1.25	..... to 3.00
Sweet Peas	1.00 to 1.50	1.50 to 2.00	.50 to 1.00	.50 to 1.50
Gardenias	20.00 to 25.00	25.00 to 30.00	..... to	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	12.50 to 15.00	12.00 to 15.00	..... to 15.00	..... to 15.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00	30.00 to 35.00
" " & Spren. (100 bchs.)	35.00 to 50.00	25.00 to 50.00	25.00 to 35.00	30.00 to 35.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

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Simple methods of correct accounting especially adapted for florists' use.
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Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

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RICHMOND, IND.

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New Roses

P M QUALITY

KILLARNEY BRILLIANT

This Rose is without doubt one of the best ever put on the commercial market. Advance orders have never been equaled by any other Rose in the history of the flower business.

For February and March delivery: **Own Root**, $30.00 per 100; $250.00 per 1000. **Grafted**, $35.00 per 100; $300.00 per 1000.

For immediate delivery: **Grafting Eyes**, $200.00 per 1000.

HADLEY

A beautiful, velvety, crimson Rose, very fragrant, of strong, vigorous growth. Flowers large and double, borne on long, stiff stems. A very valuable addition to the Red Rose list.

For February and March delivery: **Own Root**, $30.00 per 100; $250.00 per 1000. **Grafted**, $35.00 per 100; $300.00 per 1000.

PRINCE D'ARENBERG

Another addition to the Red Rose list, and a very valuable addition it is, of Richmond shade, good-sized flower. Much more double than Richmond, vigorous growth and blooms freely right through the winter.

For February and March delivery: **Own Root** and **Grafted**, $30.00 per 100, $250.00 per 1000.

	Own Root		Grafted	
	100	1000	100	1000
MRS. CHAS. RUSSELL	$12.00	$100.00	$17.50	$150.00
FIRE FLAME	12.00	100.00	17.50	150.00
MRS. GEO. SHAWYER	12.00	100.00	17.50	150.00
CECILE BRUNNER (Sweetheart)	12.00	100.00	17.50	150.00
JONKHEER J. L. MOCK	$7.50	$60.00	$12.50	$120.00
SUNBURST	12.00	100.00		
MARYLAND	7.50	65.00	15.00	120.00

And all other Standard Varieties: **Own Root**, $7.50 per 100; $60.00 per 1000. **Grafted**, $12.50 per 100; $120.00 per 1000.

Write for a complete list of CARNATION CUTTINGS.

RIBBONS—Many new patterns in exclusive ribbons. If you have not received our new Catalogue, advise us at once and we will mail you a copy.

BUSINESS HOURS: FROM 7.30 A. M. TO 6.00 P. M

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The Wholesale Florists of Philadelphia

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Flower Market Reports

BOSTON For the past few days the weakening process has been going on under the influence of mild atmosphere and bright skies, which is rapidly pushing along the roses and carnations and assures us that the period of scarcity is about gone for this year. Carnations are perhaps, feeling the situation more than the roses thus far. Indeed, one rose—American Beauty—continues scarce and the wonderful hold which this rose has upon the people is well demonstrated by the maintenance of near-holiday values all through the past month. Violets are still a disappointment, the sales being limited and slow. Bulbous flowers are in larger receipt than they have been, trumpet daffodils being far in excess of normal needs and prices cut in two. Even lily of the valley is overweighted, but the quality is very fine. Cattleyas are selling for about one-half of the January quotations.

BUFFALO Spring-like weather was had throughout most of the past week and trade was generally good on all lines. Spring flowers had a good call, with a tendency to check slightly the sale of carnations. There are too many of the ordinary carnations and not enough of the good. This is true especially of white which have been altogether too plentiful. For McKinley Day only a light demand was had. Beauties are scarce and prices rule high, though there is no special demand. Other stock in ample supply.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON February 2	ST. LOUIS February 2	PHILA. February 2
Roses			
Am. Beauty, Special	50.00 to 75.00	35.00 to 50.00	..... to 75.00
" " Fancy and Extra	20.00 to 30.00	15.00 to 25.00	40.00 to 60.00
" " No. 1	10.00 to 15.00	10.00 to 12.50	8.00 to 25.00
Killarney, Extra	8.00 to 12.00	8.00 to 10.00	6.00 to 12.00
" Ordinary	4.00 to 6.00	4.00 to 6.00	3.00 to 5.00
Richmond, Hillingdon, Extra	8.00 to 12.00	8.00 to 10.00	6.00 to 15.00
" " Ordinary	4.00 to 6.00	4.00 to 6.00	3.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 10.00	6.00 to 12.00
" " " Ordinary	4.00 to 6.00	4.00 to 6.00	3.00 to 6.00
Russell, Shawyer	15.00 to 20.00	..... to	6.00 to 35.00
Carnations, Fancy	2.00 to 3.00	2.00 to 3.00	4.00 to 6.00
" Ordinary	1.00 to 1.50	1.00 to 1.50	2.00 to 3.00
Cattleyas	25.00 to 35.00	40.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	10.00 to 12.00	10.00 to 12.00	12.50 to 15.00
Callas	..... to 12.00	10.00 to 12.00	12.50 to 15.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00
Freesias	1.00 to 3.00	2.00 to 3.00	2.00 to 5.00
Daffodils	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00
Tulips	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00
Violets	.15 to .50	.25 to .60	.25 to 1.00
Mignonette	4.00 to 8.00	4.00 to 6.00	3.00 to 6.00
Daisies	..... to 2.00	..... to	2.00 to 3.00
Sweet Peas	.75 to 2.00	.35 to .60	.40 to 2.00
Gardenias	15.00 to 25.00	..... to	8.00 to 25.00
Adiantum	75 to 1.00	1.00 to 1.25	1.00 to 1.50
Smilax	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	45.00 to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	10.00 to 25.00	15.00 to 25.00	35.00 to 50.00

CHICAGO There is still difficulty in securing stock enough to fill the normal requirements of the market, and late or unusual orders are very apt to be filled in part only. As has been the case for several weeks, roses are the farthest from being in sufficient supply. With continued dark weather, there is little chance of an immediate improvement. Now and then a fortunate grower has a house of Killarneys which is producing some excellent blooms, in spite of conditions, and these are bringing the highest prices. American Beauties in general are not as good as usual at this season, but as in the case of roses there are good exceptions. The greater portion of them are inclined to be a little off color owing to dark weather. Quite a fair quantity of tulips are coming now and include some extra fancy, as well as many very small ones. The butterfly sweet peas are a little more plentiful and of fine quality. There are some unusually good freesias, far superior to the old variety in the market now. Lily of the valley is good and selling well. Cattleyas are still in excess of demand, and ferns sell at $2.50 per 1,000.

(Continued on page ...)

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A Full Line of ALL CUT FLOWERS.
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THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Jan. 31 1914	First Half of Week beginning Feb. 2 1914
American Beauty, Special	50.00 to 75.00	50.00 to 75.00
" " Fancy and Extra	30.00 to 40.00	30.00 to 40.00
" " No. 1	10.00 to 20.00	10.00 to 20.00
Killarney, Extra	8.00 to 12.00	8.00 to 10.00
" Ordinary	3.00 to 8.00	4.00 to 6.00
Richmond, Hillingdon, Extra	8.00 to 12.00	8.00 to 12.00
" " Ordinary	3.00 to 6.00	4.00 to 6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 12.00
" " " Ordinary	4.00 to 8.00	4.00 to 8.00
Russell, Shawyer	4.00 to 15.00	4.00 to 15.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.50 to 2.00	1.50 to 2.00

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Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
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CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

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Flower Market Reports

(Continued from page 205)

CINCINNATI The average receipts of blooms has increased somewhat, while demand seems to fall off, and prices have begun to shrink. If the warm weather keeps up there will probably be an influx of stock that will be greater than the market can utilize. Rose receipts have increased slightly, but are not as yet sufficient for requirements. American Beauties while good are very slow in coming into another crop. The offerings of carnations are large and only those of quality are being utilized. The call for violets, double ones in particular, has fallen off so considerably that buyers almost dictate the prices. The supply of single ones has increased. Sweet peas are in fair supply and continue to be good property for the wholesaler. Orchids and lily of the valley are also in good supply, but enjoy only a fair call. A limited number of marguerites come into the wholesale houses. There are plenty of lilies and all are of a very high quality. Paper white and yellow narcissus are glutted, but the supply of each is not so large but that a strong demand for them would easily clean them up nicely. Freesia sells well.

NEW YORK The market has been quite bare of roses during the past week, but there has been an abundance of all other flower stock and should the warm, bright weather continue it will not be long before there will be roses in abundance as well as everything else. Wholesalers are looking for a big influx of roses and carnations before long. Daffodils, mainly single trumpet, are coming in heavily. Lily of the valley is again in good supply and extra fine quality. There is a moderate supply of tulips; plenty of good lilies, which have gone down a little in price, and a large overstock of freesias of quality ranging from very fine to very slovenly. Few violets are yet in evidence. Wallflowers, mignonette, calendulas and small flowers in variety are in sufficient quantity. Primula malacoides is being grown considerably for cut flower purposes, but is not as attractive in cut state as on the plant. There are plenty of cattleyas and other orchids such as laelias, dendrobiums and splendid oncidium spikes. Trade in general is on the quiet side and on some mornings drags discouragingly.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 31 1914	First Half of Week beginning Feb. 2 1914
Cattleyas	10.00 to 40.00	10.00 to 40.00
Lilies, Longiflorum	6.00 to 10.00	6.00 to 10.00
Callas	12.00 to 15.00	10.00 to 12.00
Lily of the Valley	1.00 to 4.00	1.00 to 3.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	1.00 to 3.00	1.00 to 3.00
Daffodils	1.00 to 3.00	1.00 to 3.00
Tulips	2.00 to 4.00	2.00 to 4.00
Violets	.50 to .60	.50 to .60
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	6.00 to 12.00	4.00 to 12.00
Gardenias	6.00 to 16.00	6.00 to 16.00
Adiantum	.50 to .75	.50 to .75
Smilax	8.00 to 12.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	20.00 to 50.00
" " & Spren (100 bunches)	10.00 to 20.00	20.00 to 50.00

PHILADELPHIA A vast change has come over the face of things since our last report. The bright weather and the longer days have increased supplies of nearly all kinds of flowers. Meantime there has been no corresponding increase in business, so that prices generally have shown a tendency to recede—although this is not very marked as yet. All roses except American Beauty are more plentiful but not so much so as the carnations. The latter are in very much larger supply. But even Beauty are expected to get a move on by the end of the week. Gardenias are about as usual. Orchids rather too many, with demand light. There is a large supply of violets—more than can be used to advantage. Sweet peas have come with a rush; splendid quality; prices very much lower except on the "orchid-flowering" sorts which are still behind the demand. Mignonette easier. Any amount of daffodils, freesia, tulips and other bulbous stock. Acacia pubescens and myosotis may be had if one orders a day ahead.

ST. LOUIS The market has not been at all satisfactory the past week. The retailers had their troubles with it early in the week and the wholesalers the latter part. Stock was quite scarce at first in all lines and grades. All of a sudden it became plentiful and the retail business dull. The big snow storm on Thursday and Friday also had a bad effect. Prices have lowered somewhat except on roses. These are still somewhat scarce and a big crop is looked for soon. Carnations are down in value and there are plenty of them in all varieties. Violets and peas are now coming in quite heavy. Bulb stock is looking up better than last week. More of it coming in and quality excellent.

POSTMASTER KASTING.

Wm. F. Kasting, the new postmaster at Buffalo, N. Y., formally received the keys at the Federal building on Saturday last. With his office so congested with flowers and friends that there was barely room left in which to move, the popular new incumbent assumed his position shortly after noon. The outgoing postmaster was not there to greet him, leaving that formality to his deputy, but Howard H. Baker, the last Democrat to hold the office, was present together with scores of personal friends and fellow florists.

At noon every inch of space around the walls of the expansive office was covered with floral offerings and as a matter of fact it was almost like a flower show. A few remarks by Mr. Kasting in which he said "I see among you many business men and I take the opportunity to say that it is my fixed purpose to so conduct the administration of this office as to merit the approval of business men and reflect credit upon our government. A banquet was tendered him by friends at the Orpheus Hall in the evening.

NEW BOSTON FLOWER MARKET.

The Boston Co-operative Flower Market, now located on Park street, has leased for eight and one-half years, the street floor and basement at 256-258-260 Devonshire street facing Winthrop Sq., and will remove on March 1. The two floors comprise an area of 13,000 sq. ft. McAlpine and Budlong who have had headquarters elsewhere will come in to the new market, the former taking 1800 sq. ft., and the latter 800. This move brings both markets and all the wholesale commission [illegible] together in Winth[illegible]

[illegible] Co., of [illegible] Cleveland, Ohio, have bought out The Cleveland Plant & Flower Co., and have taken over their growers.

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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

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ARAUCARIAS

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ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
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AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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August Rolker & Sons, New York.
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Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
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BEGONIAS

A. M. Davenport, Watertown, Mass.
New Winter Blooming Begonia Florence Davenport.

Henry A. Dreer, Inc., Philadelphia, Pa.
Tuberous Rooted Begonias.
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Hitchings & Co., New York City.
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BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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Freesia and Lilium Harrisii Bulbs.
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Horticultural Importers and Exporters.
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Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CALADIUMS

Henry A. Dreer, Inc., Philadelphia, Pa.
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CANNAS

New Wholesale List just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

Conard & Jones Co., West Grove, Pa.
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Carnation Prince Edward.
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Harlowarden Greenhouses, Greenport, N. Y.
Unrooted Carnation Cuttings.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Novelties for 1914.
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Five New Single Chrysanthemums.
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COCOANUT FIBRE SOIL

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CYCLAMENS

Thomas Roland, Nahant, Mass.
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A. M. Davenport, Watertown, Mass.
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200,000 Giant Flowering Cyclamen Seedlings in six separate colors, our own grown strain. Seed only taken of Numberblossoms. From seed flats, August-sown, $2.50 per 100; $20.00 per 1000. Once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all packages. CHRIST. WINTERICH, Cyclamen Specialist, Defiance, O.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

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Gladioli, Large Bulbs for Forcing: Augusta, America, Shakespeare, Scarsdale, Columbia, Wezinscott, Planting Stock of B. Hulot, and Scarsdale. Write for prices. GEO. J. JOERG, Gladioli Grower, New Hyde Park, L. I., N. Y.

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

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America—Planting Stock, $2.00 per 1000 and up; fine stock—write. Bulblets—Taconic, large bright pink, $1.00 quart; $5.00 peck. Silver Trophy Sec. 2 light, 50c. quart; $2.25 peck. Meadowvale florists' light mixture, 75c. quart; $3.00 peck. Independence, 50c. quart (about 4000 to a quart). HOMER F. CHASE, R. 44, Lawrence, Mass.

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America and Mrs. King in different sizes; Extra Florists' Light, containing some sorts earlier than America and good sellers. MINNESOTA, tall early cream, one of best, all sizes below 1¼; GOLDEN KING, Alice Carey, Baron Hulot, Baltimore, Burrell, Chicago White, Cracker Jack, EARLY PINK (King Style), Klondyke, MAUDE, Mrs. Beecher, Princeps, Scarsdale, Mme. Monneret, Childsi, Nanceianus, Selected Blues, Niagara, Europa, Panama and others. Write for prices. GEO. S. WOODRUFF, Independence, Iowa.

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Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Lemon Oil Co., Baltimore, Md.
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Old Town Nurseries, M. P. Haendler, Prop., South Natick, Mass. For page see List of Advertisers.

Landscape Garden Co., Newburgh, N. Y. Grape Vines, Currant Bushes; also Horse Radish.

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Lager & Hurrell, Summit, N. J. For page see List of Advertisers.

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, Sander, St. Albans, England. Importer, Exporter, Growers, Hybridists. For page see List of Advertisers.

Freeman Orchid Co., Fall River, Mass. For page see List of Advertisers.

PALMS, ETC.

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Godfrey Aschmann, Philadelphia, Pa. For page see List of Advertisers.

Robert Craig Co., Philadelphia, Pa. For page see List of Advertisers.

John Scott, Brooklyn, N. Y. For page see List of Advertisers.

Joseph Heacock, Wyncote, Pa. For page see List of Advertisers.

August Rolker & Sons, New York City. For page see List of Advertisers.

Otto Heinecken, New York City. For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass. For page see List of Advertisers.

PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each. JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago. For page see List of Advertisers.

King Construction Company, N. Tonawanda, N. Y. Shelf Brackets and Pipe Hangers. For page see List of Advertisers.

PLANT AND BULB IMPORTS

August Rolker & Sons, New York City. For page see List of Advertisers.

McHutchison & Co., New York City. For page see List of Advertisers.

Otto Heinecken, New York. For page see List of Advertisers.

PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa. "Riverton Special." For page see List of Advertisers.

POINSETTIA PULCHERRIMA

A. Schultheis, College Point, N. Y. For page see List of Advertisers.

POTASH

German Kali Works, Inc., New York City. For page see List of Advertisers.

POWER AND SPRAY PUMPS

C. J. Jager Co., Boston and Providence.

RAFFIA

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RAT AND MOUSE CATCHER

H. D. Swarts, Scranton, Pa. For page see List of Advertisers.

REFRIGERATORS FOR FLORISTS

United Refrigerator & Ice Machine Co., Kenosha, Wis. United Ice Machines. For page see List of Advertisers.

RHODODENDRONS

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Bobbink & Atkins, Rutherford, N. J. For page see List of Advertisers

RIBBONS AND CHIFFONS

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Robert Craig Co., Philadelphia, Pa. For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y. American Grown Roses. For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass. For page see List of Advertisers.

S. S. Pennock-Meehan Co., Philadelphia, Pa. For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J. For page see List of Advertisers.

Eastern Nurseries, Jamaica Plain, Mass. New Sargent Rose. For page see List of Advertisers.

Wood Bros., Fishkill, N. Y. For page see List of Advertisers.

Robt. Scott & Son, Sharon Hill, Del. Co., Pa. New Rose Killarney Brilliant. For page see List of Advertisers.

A. N. Pierson, Inc., Cromwell, Conn. New Roses. For page see List of Advertisers.

F. Dorner & Sons Co., La Fayette, Ind., and The E. G. Hill Co., Richmond, Ind. Hoosier Beauty, The Red Rose for 1915.

Extra fine list of 2¼ in., one and two year field plants, just issued. Send for it. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

Leonard Seed Co., Chicago, Ill. For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal. For page see List of Advertisers.

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SEEDS

Joseph Breck & Sons, Boston, Mass. For page see List of Advertisers.

Chas. Schwake & Co., New York City. For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa. New Crop Flower Seeds. For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa. For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass. Send for 1914 Catalogue. For page see List of Advertisers.

J. M. Thorburn & Co., New York City. New Crop Flower Seed. For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill. Peas, Beans, Radish and all Garden Seeds. For page see List of Advertisers.

Arthur T. Boddington, New York For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo. Sweet Peas. For page see List of Advertisers.

Loechner & Co., New York City. For page see List of Advertisers.

T. J. Grey Co., Boston, Mass. Shamrock Seed. For page see List of Advertisers.

Albert Dickinson Co., Minneapolis-Chicago. Lawn Grass. The Right Seeds in the Right Place. For page see List of Advertisers.

S. D. Woodruff & Sons, New York. Garden Seed. For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J. For page see List of Advertisers.

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SEEDS—Continued

Ant. C. Zvolanek, Lompoc, Cal.
Commercial Sweet Pea Seed.
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J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
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Burnett Bros., New York City.
Seasonable Seeds.
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J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds for Florists.
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Stamford Seed & Nursery Co., Stamford, Conn.
New Crop Seeds.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Peter Henderson & Co., New York City.
New Crop Aster Seed.

Fottler, Fiske, Rawson Co., Boston, Mass.

Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."
For page see List of Advertisers.

SNAPDRAGONS

H. Huebner, Groton, Mass.
New Winter-Flowering.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.
For page see List of Advertisers.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

THE NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

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WIRED TOOTHPICKS

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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

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Brooklyn

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Chicago Carnation Co., 30 E. Randolph St.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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Woodrow & Marketos, 41 West 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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B. S. Slinn, Jr., 55 and 57 West 26th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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WHOLESALE FLORISTS

Philadelphia—Continued

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E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers in This Issue

ASPARAGUS PLUMOSUS NANUS AND ASTER SEED.

Michell's Seed House, Philadelphia, Pa.
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BODDINGTON'S QUALITY CANNAS.

Arthur T. Boddington, New York City.
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FERNS FOR DISHES; BIRD'S NEST FERNS.

A. M. Davenport, Watertown, Mass.
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IRISH SHAMROCKS.

Peter Henderson & Co., New York City.
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LILY OF THE VALLEY PIPS—ROSES—HOLLAND AND JAPAN BULBS.

August Rolker & Sons, New York City.
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NEW ROSES.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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POTASH.

German Kali Works, Inc., New York City.
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THE JOY BLACKBERRY.

J. T. Lovett, Little Silver, N. J.
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THE SPENCER TYPE OF SWEET PEAS.

W. Atlee Burpee & Co., Philadelphia, Pa.
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Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

In writing to Advertisers kindly mention Horticulture

GREENHOUSES BUILDING OR CONTEMPLATED.

Topeka, Kan.—R. B. Krieg, house 12x50.

Lincoln, Ill.—Otto J. Hembreiker, additions.

Hammonton, N. J.—Edw. A. Fink, house 20x150.

Central Park, B. C.—A. Osborne, house 21x125.

New Britain, Ct.—Volz Floral Co., house 25x100.

Kelso, Wash.—Kelso Floral Co., house 16x100.

Maywood, Ill.—Walter Burhop, house 25x200.

Greensboro, N. C.—A. & M. College, conservatory.

Tucson, Ariz.—Tucson Seed Company, range of houses.

Maywood, Ill.—E. C. Amling, two rose houses each 34x250.

Joliet, Ill.—Chicago Carnation Co., range of carnation houses, in spring.

Jamestown, N. Y.—A. Beckrink & Son, Lord & Burnham house 40x120.

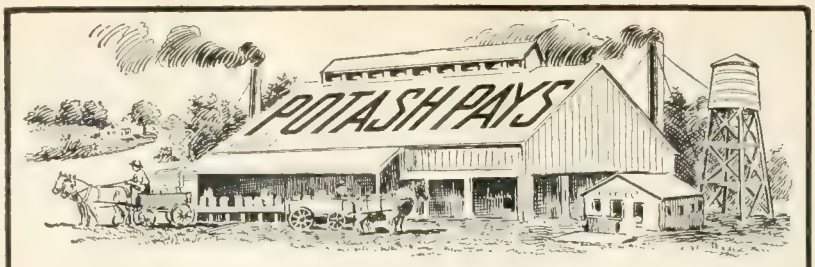
Islip, N. Y.—Fire in the boiler house of James T. Riley on the evening of Jan. 15th caused a damage of $500.

Bridgeton, N. J.—Wm. J. Smith, North Laurel street, one house. Mr. Smith was formerly in the pot manufacturing business.

NEWS NOTES.

Galva, Ill.—George Pierce has purchased the greenhouse business of A. G. Larson.

Scranton, Pa.—One large greenhouse of Morel Bros., Boulevard ave. has been totally destroyed by a mine settling beneath the property. Two other houses are also seriously affected. The damage to houses and plants thus far is estimated at $2,000.



Why fertilize for vine instead of for what you sell or pack? The fertilizers offered to canning crop growers are generally too low in available

POTASH

They produce too much vines and not enough of the beans, peas, corn and tomatoes that bring good cash for their trouble. If you are raising canning crops, don't accept a fertilizer lower than 10 to 12% in Potash.

Write for our booklet on fertilizers for special Crops. It shows how Potash Pays

If your dealer sells only low-grade goods, get our prices on Potash Salts. We will sell any amount from one bag of 200 lbs. on up.

GERMAN KALI WORKS, Inc., 42 Broadway, New York

Chicago, McCormick Block Atlanta, Empire Bldg. New Orleans, Whitney Central Bank Bldg.
Savannah, Bank & Trust Bldg. San Francisco, 25 California St.

A Beautiful Lawn

Insure a velvety, green, quick growing lawn: also double the yield of the garden and produce earlier and better vegetables, by feeding the soil with



SHEEP'S HEAD SHEEP MANURE

Rich in nitrogen, phosphoric acid and potash. Pulverized, ready to apply. Also will show quick results on flower beds, shrubbery and orchard. Two 100 lb. bags, $4, freight prepaid east of the Missouri River. Send for folder.

Natural Guano Co., 815 River Street, Aurora, Ill.

A Fine Garden

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY — Long Distance and Export Trade

IMP. SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL., $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

DO IT NOW

Save your trees from scale. Use

SCALECIDE

5 Gals., $3.25

Wm. Elliott & Sons

42 Vesey St., New York

Mention HORTICULTURE when writing

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$120.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, **714 Chestnut Street, Philadelphia, Pa.**

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | **Experimental Greenhouses, Catonsville, Md.** | **Experimental Farm, Farmingdale, N. J.**

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:—
"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:—
"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—
"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass, writes:—
"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart $3.00 Per Gallon
(Special prices on large quantities).
For Sale by Seedsmen.

We Manufacture
APHINE, FUNGINE, SCALINE, and NIKOTIANA.

Aphine Manufacturing Co.
Manufacturers of Agricultural Chemicals
MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

APHICIDE POWDER

(FORMERLY THE FUMIGATING KIND)

KILLS ALL APHIS

$3.00 Per 100 lb. Bag on Cars Mount Vernon, N. Y.

WE SELL DIRECT TO THE GROWER
SEEDSMEN CANNOT SELL IT TO YOU

If you desire a Tobacco Powder that is Guaranteed to Burn, and will Burn and Give Perfect Satisfaction, or Money Back, Mail Order Direct to Us.

THE H. A. STOOTHOFF & CO., MOUNT VERNON, N. Y.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.

CLARKSVILLE, TENN.

Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

20th CENTURY PLANT FOOD CO.

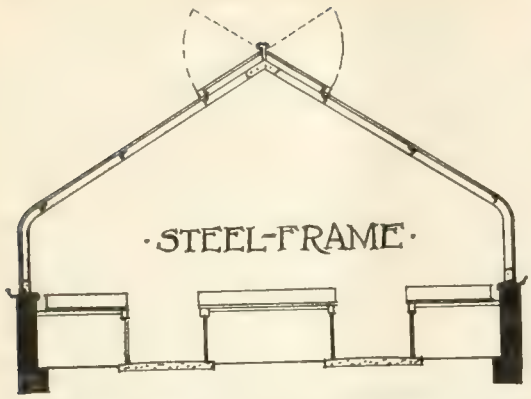
27 & 29 OCEAN ST., - - BEVERLY, MASS.

FERTILIZERS

Tankage, $2.00; Sheep, $1.75; Bone, $2.00; Ashes, $1.50; Phosphate, $2.00; Limestone, $1.00; Blood, $4.00; Nitrate Soda, $4.00; Sulphate Potash, $3.50 per 100 lbs. Smallest quantity sold 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N.Y.

In writing to Advertisers kindly mention Horticulture



Why We Should Build Your New Greenhouse

Because our STEEL-FRAME Greenhouses have inculcated in their construction the results of knowledge of up-to-date building methods and the experience of practical growers. While the materials in them are the best of their respective kinds an estimate from us on your new house proves they cost no more than others.

Bird Steel-Frame Greenhouse Co., Inc.

GENERAL SALES OFFICE.
15-17 West 38th Street, New York City

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

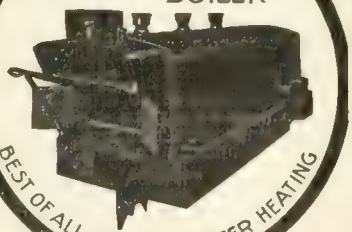
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Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

THE KROESCHELL GREEN HOUSE BOILER



BEST OF ALL FOR HOT WATER HEATING

Kroeschell Bros. Co.
466 W. Erie Street CHICAGO

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

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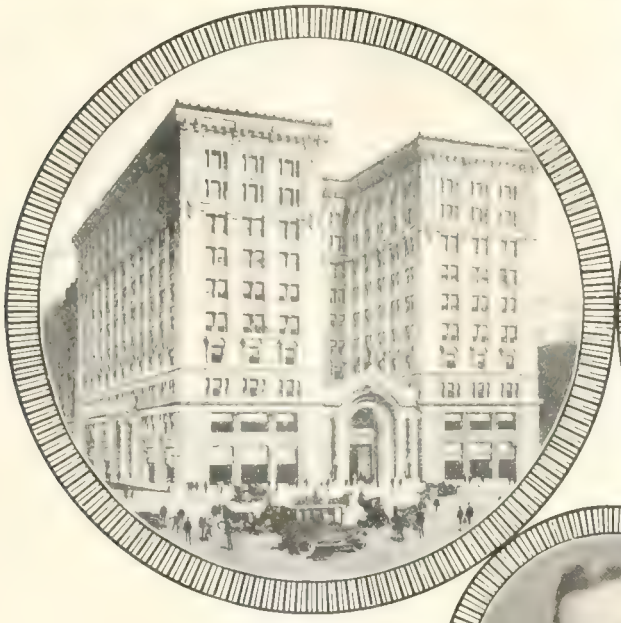
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DOGS can be divided into two classes—those that are heavy set, and clumsy; and those that are not.

There are two kinds of greenhouses: the other kinds and the U-Bar kind. The U-Bar is a light, graceful house of proven endurance. The "other kinds"—let's talk about them some other time.

But right here and now, before we talk about anything else, we want to say just this one thing in particular, and that is—the only practical difference between "other kinds" of construction that are not the U-Bar, is that some of them are made better than others; but any one of them can be built by anyone.

With the U-Bar it's entirely different. The U-Bar greenhouse can be built only by the Pierson U-Bar Company.

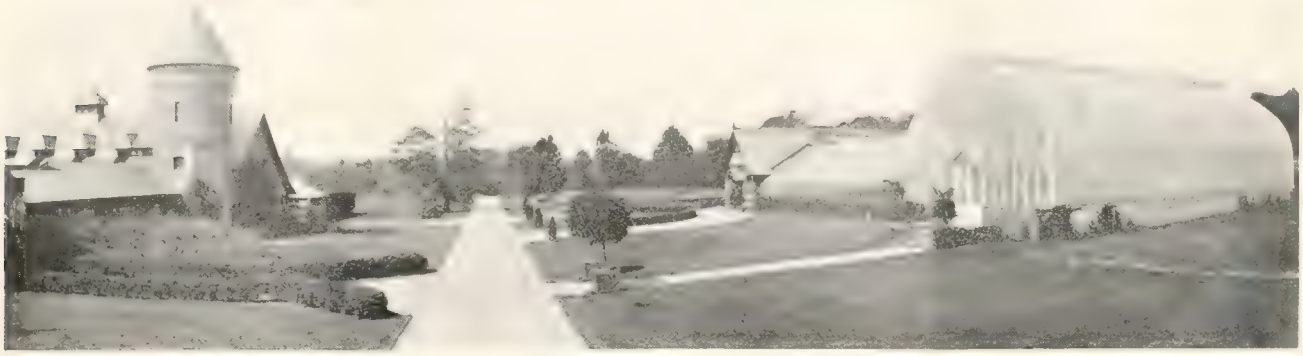
Now you can't compare an alligator and a dog—you must compare things that are alike—one dog with another, for example. For exactly the same reason, you can't compare a U-Bar house with other houses—*because there's absolutely no comparison.*

Therefore, the U-Bar is in a class all by itself.

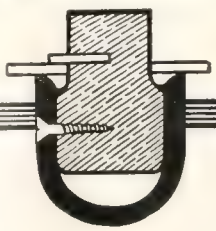
That this class is strictly high class must be so, else why would the U-Bar be imitated as much as possible, just as nearly as possible. Take the curved eave, for instance: It was originated with the U-Bar construction—we were absolutely the first ones to build a curved eave house. The curved eave has been, as far as possible, adapted to other constructions. But the one it is best adapted to is the U-Bar construction, because it is constructed with U-Bars. None other is as light, as graceful, as enduring—no one denies that.

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U-Bar house on estate of Taylor Pyne, Princeton, N. J.



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HORTICULTURE

Vol. XIX FEBRUARY 14, 1914 No. 7



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Here's a grass test. Alphano Humus was spread on the terraced part, and the customary barnyard manure on the rest.
The Alphano being in powdered form, was raked in. The manure being characteristically lumpy and full of litter, eventually had to be raked off, carrying along much of its worth.
Three days before this photograph was taken, all the grass was cut. The very marked contrast in the height and evident depth of color of the grass between the two portions, tells its own story of the real worth of Alphano Humus.

A Talk to Those Who Are Not Awake to the Merits of Alphano Humus

HUMUS is the very backbone of any productive soil. The greater its humus content, the higher its productive power and the longer its fertility endures.
The difference between freely workable, fertile top soil and "packy" or "gravelly," unproductive sub-soil, is the difference in the amount of Humus it contains.
Humus itself is just simple, plain, every day decayed vegetable matter. When you walk in the woods, it's the humus that gives that soft, springy feeling. It's the Humus that fills itself full of water and gradually liberates it, feeding the springs and streams. It's Humus in the wood soil that plays so important a part in preventing the rains from rushing down the hills and mountain sides, filling the streams and causing flood disasters.
Humus it is that makes a heavy soil lighter, and light soils heavier. It's Humus that absorbs the nitrogen and other plant foods and combines them, making readily available foods for plant growth.
It's Humus that holds the moisture in soil, fortifying it against the summer's protracted heat. Without Humus, soils are sterile.
So much for Humus in general; now a word about Alphano Humus in particular.
Down at Alphano, New Jersey, are deposits of Humus, varying in depth from 18 inches to 5 feet. Scientific authorities estimate that it has been thousands of years in forming. They state it to be composed of highly decayed vegetable matter, with which is mixed the remains of fish and animal life, together with the mineral matter washed down from the neighboring hills.
When this deposit is dug up and put in piles, it "heats." This proves beyond all dispute, that it is far from inert, but lively with the bacteria of ferment, so essential for rendering the nitrogen available as well as increasing the activity of the bacteria already in any soil.
This bacterial action is highly important in aerating the soil, and in the uniting of the various soil properties to increase their availability for plant roots.
This Alphano Humus, of Nature's own make, we dig, dry, and prepare in a powdered form, already for your use.
It is rich in nitrogen, carrying as much as from 3 per cent. to 4 per cent.; against one-half of one per cent. contained in barnyard manures. It analyzes high in phosphates, lime and the various other plant life giving properties. Being in powdered form, you can easily incorporate it in the soil. Being odorless, you can use it at any time, anywhere, absolutely without objection. Being entirely sanitary, it overcomes the menace of disease distribution, ever present with animal manures.
Being so much stronger than such manures, and lasting so much longer than chemical fertilizers, it has distinct advantage over either. Being so reasonable in price, you can use it freely, and know that you are not only stimulating the soil, but giving to it a long enduring fertility.



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We welcome the opportunity to prove what Alphano Humus will do for you, based on what it has done, and is doing for others.
Use it this Spring on your lawn—rake it in—not off, as you do with barnyard litter. Dig it around your shrubs—use as a mulch for rhododendrons—garden with it. Give it a fair trial.
Send for the Humus Book; it tells all about Humus in general and Alphano Humus in particular.

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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Alternantheras

A good crop of cuttings will now be available from the stock plants. The cuttings after they have been sheared off, or taken with a knife should be put in the sand in close rows. They require a good watering when put in and shade for five or six days. With bottom heat they will be rooted in a little more than two weeks, when they should be lifted and put into flats. If pot plants are required, these, when they have made sufficient roots and are crowded in the flats, can be potted into 2½ or 3 in. pots. Light, fibrous soil, kept moist, suits alternantheras, and a bench up near the glass, warmed from underneath, is the best place for them, better than hotbeds or frames. Two or three crops of cuttings can also be had of those first propagated; in fact, when kept going, cuttings in plenty can be got from quite a limited number of stock plants.

Care of Palms

In potting palms, it should be remembered to always give small shifts. When they are overpotted or tubbed the soil usually becomes soured and wormy before the roots can take it up, and good results are impossible when this occurs. In regard to compost, shake out the finer particles of soil and use good fibrous loam. A good compost for palms is two-thirds fibrous loam, one-third peat mold with a liberal addition of sand. Large plants can have some coarse bone added and a little well-dried cow manure. Always pot firmly and water with caution until the roots are actively at work in the new compost. All your palms may not need shifting. Those that are not to be repotted can have a top-dressing, picking away some of the old material first, and then renewing with rich compost. Before repotting see that the palms are clean. To keep them clear of scale, spray occasionally with some insecticide that will loosen up the scales, allowing them to be sponged off clean.

Flowering Shrubs for Easter

It is just as well to bring any flowering shrubs intended for Easter a little early. A temperature of 45 degrees is high enough to start with. A moderate moisture at the roots, but copious, frequent sprinkling overhead will soon bring about an even all-around break and the starting of active root fibers. This accomplished, they may safely be treated to more heat. A graded, slow rise to 60 degrees, with from 5 to 8 degrees higher on bright days will finally fix the even course of regular forcing, promote luxuriant growth and perfect development of foliage and flowers. The temperature can be raised 5 degrees every ten days until you have them at about 70 at night. Shrubs will have better flowers and foliage if they have all their hard forcing ten days before they start to open their buds. When they are fairly well out in flower a drop to about 50 degrees at night will add to their keeping qualities as well as give substance to their flowers.

Rambler Roses

Plants to be in bloom for Easter should now be in a sunny house with a night temperature of about 55 degrees. If the shoots are now 5 to 6 inches long on the Ramblers they are all right. But where they are not that far advanced, when they have developed some root action and the new growth appears, the temperature should be slowly raised to 60 or up to 65 degrees if necessary. While under this forcing they will need water in ample quantities both at the roots and in overhead sprinkling. When they get into fairly good growth they will need careful watching so that they do not dry out too quickly, a condition which is very liable to produce a few flowers prematurely instead of a full set of bloom. Ramblers want abundant water supplied, and liquid manure every fourth day until the flowers begin to expand when it should be discontinued. When ventilating avoid cold drafts, which will cause mildew to start and soon render the plants unsaleable. Look out for plants growing near heating pipes as once red spider gets a foothold they are speedily ruined.

Sweet Peas

Sweet peas sown in pots and growing cool will make fine stock for spring flowering. If the place on the benches is not ready, sow from four to six seeds to a 4-inch pot and they can be planted in the benches in about four weeks. Sown at this time there will be less difficulty than with the early crops. They will last for picking from four to six weeks and will find a good market and price. A good compost for sweet peas should consist of about three parts loam to one of manure. They should have a temperature of 45 degrees to 50 degrees at night with a rise to 60 to 70 degrees with sunshine. Keep them well up to the light, syringe on all bright days and be careful about watering. Whether profitable or not depends now on cultural skill and not on market conditions as formerly, for good sweet peas can now be sold right along at excellent prices.

Starting Coreopsis

Plants intended for Memorial Day can be brought into a cool house in a week or two. It is always better to start these plants slowly and cool. In about two or three weeks they can stand 50 degrees. As the roots become active they will want lots of water, and weekly doses of liquid manure. Give plenty of ventilation.

Mr. Farrell's next notes will be on the following: Azaleas; Dracaenas; Euphorbia fulgens; Orchids; Tuberous Begonias; Starting Lemon Verbenas.

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A new "break"

A new boost for the flower business has just appeared and from a most unexpected source. One of the polling places in Chicago is located in a florists' shop and it was announced in the daily papers that women going to register there would each be presented with a bouquet of flowers, donated by the proprietor. We don't know whether this gentleman seeks to encourage the women in the exercise of the right of suffrage or is simply in pursuit of lucrative publicity, but, in either case, he wins and wins deservedly. The "antis" have the struggle of their lives ahead of them if this thing spreads. Or will they make out a case of "pernicious activity"?

Advantages of modern equipment

In our occasional rambles among the flower growers we are constantly impressed by the overwhelming advantages enjoyed by those who possess modern-built greenhouses over those having old-time outfits, in the production of marketable roses, carnations and various other flower staples. There are, of course, a few exceptions—object lessons, demonstrating that without adequate knowledge, industriously used, the finest of up-to-date houses are apt to turn out lamentable results. Location, sunlight, soil and other factors also count in the success or failure of all such undertakings, as everybody knows, but, everything else being reasonably equal, the man having houses planned and built on the advanced systems of greenhouse construction and heating of the present day will be found far in the lead when the season's profits are counted up.

Our friends, the greenhouse builders

For the advantages alluded to in the foregoing we must thank the greenhouse building firms who, in the healthy business rivalry of recent years, have been less concerned with the competition to underbid than with the struggle for supremacy in the science of construction, durability and perfection of every detail. The splendid structures which shelter the products of the commercial grower of today, as well as those of his wealthy amateur neighbor, represent years of close investigation and study of the myriad problems of the science of light and heat and their practical application to the specific demands of a rapidly advancing business. One of the best evidences of the stable character and dignity which the floral industry has attained is the enterprise and confidence displayed and the capital being invested in greenhouse construction. It would seem almost impossible to further improve but no doubt the next few years will see continued advancement for there is every reason to believe that the plant, flower and fruit forcing industry is yet only in its infancy and no business offers fairer inducements for the employment of capital and brains.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Young Cuttings After Potting

Even with the best of care there will be a few cuttings that will go to the bad, and if the number does not exceed ten per cent, it is doing nicely. The smaller the loss the greater credit for the grower. After a week or two in pots the cuttings that are going to die can be easily picked out and done away with, and the space thus gained can be used to grow some more. Be very careful with the hose for too much water and a few cloudy days will play havoc among the little plants, causing many to die of rot, getting all black at the bottom and gradually dying to the top. As soon as growth starts, a little more water can be applied. When looking over the benches take a plant every now and then and turn it out of the pot so that you will be able to see just how moist the soil really is, and at the same time you will see how many roots the plants possess and will then have an idea how to keep them, should a bad spell of dull cloudy weather come along. Syringe as often as is possible, for you will then not only rid the plants of many undesirable insects, but will help promote growth.

Lime Water

If the soil in the pots starts to get coated with a green scum, it will be well to water the plants a little now and then with lime water. This green should not appear, and if perfectly clean pots were used it seldom will until after the plants have been in pots six months or more. Where a large number of plants are being grown it will not pay to bother mixing the lime water in cans, and the only way is to get a barrel every here and there, dump a peck of lime into it, and then slake it. After it is well slaked fill the barrel with water, and allow it to settle. Use the clear water from the top only, otherwise the plants or leaves of the cuttings will get a coat of lime, which would be of little benefit to them, and look bad besides.

In the Old Houses

Just because the rush of the propagating season is here there is no reason why the old houses should be allowed to go back, as there is plenty of time yet to grow many cut roses before they are torn out. Neglect now will mean bad roses in the spring and there might as well be none as to have poor stuff, for there will be plenty of other flowers on the market and when there is plenty to select from the buyers will not have to take all that is offered, so some of the stuff is bound to go to the bad.

Tying

Keep right on with this, and never neglect to keep the plants tied, for they go back very quickly when allowed to lie around at all. This is especially true of Beauties, which will go blind very quickly, Killarneys and the roses of that habit will require very little tying, and an occasional touching up will be all that is necessary to keep all the plants in good shape. With Beauties it is different, and they should be gone over almost weekly, and straightened out, so that they will never be real bad. Once they are allowed to go back it will take time and time to get them into shape again. When tying it is well to pick off all the yellow leaves that you come across and as soon as the house is tied go over the benches and pick them all up and burn them. This will make the plants look much neater, and will benefit them as well.

A DUTCH VIEW OF THE GLADIOLUS SITUATION.

Editor HORTICULTURE:

Dear Sir—With great surprise the Council of the Dutch Gladioli Society has read your editorial of Dec. 27th, about the Dutch gladioli. We permit ourselves to answer in the following:

The growing of Gladioli in Holland has increased much in a very short time and this proves that the state of this culture must be sound, as in the opposite case it would be quite impossible that this culture could have developed in such a way, nothing being more difficult than growing bulbs or any article whatever, which are liable to disease. As for the damages which might be caused in shipping the bulbs we can only say that every year the Dutch bulb growers ship enormous quantities of bulbs to the U. S. of A. with the best success and that they take care, of course, that gladioli do not arrive in America spoiled and sweating.

It is not to be denied, however, that the prices of gladioli are very low at present, which we too regret very much. This fact has nothing whatever to do with the more or less good quality of the Dutch Gladioli, but is the result of overproduction. This, however, cannot last long, there being nobody who can grow an article a long time at a lower than production price, and people very soon start to plant fewer bulblets and less young stock, which quickly diminish the stock of saleable bulbs for the following seasons and consequently the price soon returns to a normal state.

Hoping to have given by these lines a better insight as regards the Dutch Gladioli, we remain,

Yours truly,

THE DUTCH GLADIOLI SOCIETY,
K. Velthuys, Sec'y.

DREER EXHIBITS ON THE GARDEN PIER, ATLANTIC CITY, N. J.

The Gardens located on the new Garden Pier, Atlantic City, N. J., have been leased by Henry A. Dreer, Inc., Philadelphia, for exhibition purposes. This new pier, which will be the chief attraction on the ocean front, was built at a cost of over one million dollars and will be further extended in the near future. The Gardens are located in the center of a beautiful court leading to the theatre, which has been leased by Keith for a term of 25 years. Hundreds of thousands of persons from all over the United States will pass these Gardens and the advertising thus obtained will be of a national character.

The Gardens consist of two large square plots, with a smaller circular plot between and will afford ample space for liberal displays of plants and flowers, including a large pond of water lilies and other aquatic plants. These exhibits will be changed frequently in order to make a continuous and varying display during the whole year. This method of advertising is unique and has never before been attempted on so large a scale. It will be exceedingly attractive to the public and particularly interesting to those florists who visit Atlantic City during the summer.

CLUBS AND SOCIETIES

BUFFALO FLORISTS' CLUB

The best attendance ever had at any club affair in Buffalo was at the regular meeting of the Buffalo Florists' Club on Tuesday last.

With President Legg in the chair, the regular routine of business went through and as there were visitors and a paper to be read, same was cut short. A brief talk was given by Professor E. A. White on the experiments being held at the Agricultural College, which was very interesting. A paper was also read on chemical fertilizers by Leon Neubeck, and a lively discussion followed.

An invitation and challenge was read from the Rochester bowlers for a contest; the first game to be bowled in Rochester on Feb. 20. Jos. Streit, manager of the Buffalo team has his men in training and a warm contest is looked for. Urgent request is made that all who possibly can attend should give their support as rooters at the coming event. The Rochester boys are royal entertainers and an exceptionally good evening's sport is assured for all. A good bunch from Buffalo will leave on train at 3.15. Any information regarding same may be had from Mr. Streit.

During the afternoon and evening a carnation exhibit was held in connection with the meeting. The committee and club members extend their thanks to the growers who sent in the following exhibits:

Matchless, the beautiful white, Cottage Gardens, Queens, N. Y. Dagmar, Patten & Co., Tewksbury, Mass. Ideal, W. C. Stroh, Attica, N. Y. Ward and Enchantress, white, Miller & Stroh, Alden, N. Y. Philadelphia Pink, S. S. Skidelsky, Philadelphia, Pa. White Wonder, White Bros., Medina, N. Y. Enchantress, pink, L. H. Neubeck, Eggertsville, N. Y. Enchantress Supreme, Dailledouze Bros., New York City. Enchantress, Rosette, White Wonder, Gloriosa and Yellow Prince, Palmer & Son, Lancaster, N. Y. White and Pink Enchantress, C. F. Christensen, Eggertsville, N. Y. Pink Supreme, J. H. Leach & Son, N. Easton, Mass. Pink Enchantress, H. A. Blasdell, North Collins, N. Y. White Perfection, Ward, Pink Enchantress and Double White Killarney Rose, C. T. Guenther, Hamburg, N. Y. Mrs. C. E. Akehurst, C. Akehurst & Son, White Marsh, Md. Sweet Peas, Zvoeneks winter flowering orchid type, Lavender, Venus and Mrs. Skach, Jerry Brookins, Orchard Park, N. Y.

It was a grand display of carnations, which has not been equalled at any carnation show held in connection with any Florists' Club meeting. Many out-of-town florists were with us and highly commented upon such a fine exhibition of blooms.

At the next regular meeting a paper will be read by Ed. Lehde on soil mixture and this should prove interesting and a good discussion should follow. At this time the election of officers will be held and the regular annual banquet will follow the meeting. Nomination of officers for the ensuing year: President, W. H. Eiss; Vice-president, R. E. Boettger; Secretary, William Legg; Fin. Secretary, Albert F. Vick; Treasurer, E. C. Brucker.

FLORISTS' CLUB OF WASHINGTON

As a result of the nominations for the various offices of the Florists' Club of Washington, George H. Cooke will be the next president, and William F. Gude, treasurer; Elmer C. Mayberry, secretary, and Adolph Gude and Theodore Diedrich, trustees, have been renominated with no contestants in the field. The only contest will be for the office of vice-president, for which O. A. C. Oehmler and R. L. Jenkins have been proposed. Both of these gentlemen have a lot of followers and the fight promises to be a good one. Mr. Oehmler for several years was secretary of the club and has served as a member of many of its committees. Mr. Jenkins is one of the most popular of the club's members and has always been willing to do his share of committee or other work which might fall to him.

A letter acknowledging with thanks the congratulations extended him by the membership upon his appointment as superintendent of the Botanic Garden was received from George W. Hess. Speaking on the proposed William R. Smith Memorial plans, Mr. William F. Gude asked that each member consider himself as a committee of one to bring in some tangible suggestion as to the form this Memorial should take and to present it at the March meeting. Apparently Mr. Gude favors the erection of a suitable building to form the home in the National Capital of the Society of American Florists and Ornamental Horticulturists although he refused to commit himself on the subject.

A certificate of merit was awarded to A. N. Pierson, Inc., Cromwell, Conn., on the new Hadley rose, a vase of which was on exhibition.

CHICAGO FLORISTS' CLUB

At our meeting Friday evening, Feb. 6, the matter of affiliating with the S. A. F. & O. H. was brought up, but upon motion, action was deferred until our March meeting, when it will come up as a special order of business. A committee consisting of W. J. Keimel, Geo. Asmus and Aug. Poehlmann was appointed to take up the matter and report at the next meeting. J. F. Ammann and Mr. Loveridge addressed the Club on the coming meeting of the Illinois State Florists' Association at Danville, Ill., March 10 and 11. A special car has been chartered from Danville to Urbana, where the visiting florists will inspect the new range of glass at the University of Illinois. The Club passed a resolution at this meeting, stating that whenever a member is ill, flowers should be sent to him instead of fruit as heretofore, and that said flowers shall be purchased only from a retailer.

J. B. Foley, Sec.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

A very attractive programme brought out a good attendance at the club meeting at the Fort Pitt Hotel on the night of February 3d. First on the list was a talk, illustrated by lantern slides on "Gardening by Dynamite." All the details of the process of applying and firing the dynamite for the removal of rocks and stumps were shown. Then followed instructions as to preparing the land for crops, etc.

A talk by A. Frishkorn on the Propagation of Holland Bulbs followed, in which all stages in development were fully explained.

Mr. Frishkorn was assisted by Mr. A. Colyn of Voorhout, Holland, who was able to answer the many questions asked. Among other things he said that the old way of making crosscuts in the mother hyacinth bulb was being superceded by the plan of scooping out a hole in which the bulblets could form.

Interesting displays of cyclamen and forget-me-nots were made by Carl Becherer, gardener at Dixmont Hospital; carnations by Jno. Costoff, gardener at Beechwood Farms and daffodils and tulips by the Bureau of Parks.

The election of officers for 1914 resulted as follows: President, Niel McCallum; vice-president, E. C. Reineman; treasurer, T. P. Langhans; secretary, H. P. Joslin; assistant secretary, W. A. Clarke; executive committee, P. S. Randolph, C. H. Sample, A. Frishkorn.

NEW YORK FLORISTS' CLUB.

The regular meeting of this club on Monday evening, Feb. 9, attracted a good attendance, numbering one hundred or more. The approach of the date for the big flower show and the prospect of listening to a talk on greenhouse construction by W. R. Cobb, of the Lord & Burnham Co., made a good drawing combination.

After the presentation of various committee reports, much time was taken up with matters connected with the Flower Show. F. R. Pierson of the joint committee of the Horticultural Society and the Club gave a very interesting talk on the situation and the prospects. The announcement of the widespread interest being displayed by the retailers was hailed with approbation. Already five special silver cups have been offered by the leading hotels of New York and more are expected. Trade tickets will be sold at $20 per 100 and season tickets will be issued to all members of the Society and Club. A large number of applications for membership were received.

Among the exhibits were carnations. Mrs. C. Akehurst, grown by C. Akehurst & Son and shown by S. S. Pennock-Meehan Co., Rosette by Head's Bergenfield Nursery, Prince Edward, by A. C. Begerow and Rose Hadley by A. N. Pierson Co.

Mr. Cobb's lecture was illustrated with lantern slides and was a rare treat.

ST. LOUIS CLUB AND SOCIETY MEETINGS.

The St. Louis County Growers' Association held a well attended meeting Wednesday night, February 4, at the Eleven Mile House.

The St. Louis Lady Florists' Home Circle met this week, Wednesday afternoon, February 11, at the home of Mrs. Fred C. Weber, Jr.

The Retail Florists' Association of St. Louis will meet next Monday night, February 16, at Hotel Beers. Officers for the ensuing year are to be elected.

The St. Louis Florists Club's publicity committee met on Sunday afternoon, February 8, at the home of R. J. Windler. The attendance was good and the proceedings will be reported at the club meeting this week.

CLUB AND SOCIETY NOTES.

William J. Stewart of Boston lectured before the Bar Harbor (Me.) Horticultural Society on Friday evening, Feb. 6, his subject being "In Our Day and Generation." There was a large and enthusiastic audience.

A special course of lectures and demonstrations on Fruit Growing, will be given by the Massachusetts Horticultural Society in co-operation with the Extension Service of the Mass. Agricultural College, at Horticultural Hall, Boston, Feb. 24 to 28, inclusive, forenoons and afternoons.

The Cincinnati Florists' Club's meeting was well attended. Pres. Jas. Allen named a committee, consisting of R. Witterstaetter, chairman, Gus. Adrian, Max Rudolph, Frank Volz and Wm. Murphy, to solicit funds from local florists to aid in the fight on taxation of plants and flowers at Springfield, Ohio.

The midwinter meeting of the Texas State Horticultural Society, which is to be held in Dallas, Feb. 19 and 20 promises to be a very interesting event. The program of addresses and topics for discussion is very full and well selected to instruct, and a large attendance is expected. G. H. Blackmon, of College Station is asst. secy-treas. of the society.

To promote the planting of shade trees the Massachusetts Forestry Association is offering to plant with shade trees at least seven feet in height one mile of highway in the town or city of Massachusetts which properly plants on its streets this spring the greatest number of shade trees in proportion to its population based on the census of 1910.

The rules of the contest provide that at least 50 towns and cities must enter and by July 1, must have announced their intention to compete. The official count will be made Sept. 15.

J. Lewis Ellsworth, of Worcester, ex-secretary of the Massachusetts Board of Agriculture, gave an illustrated lecture on "Agriculture in Holland and Denmark" on Saturday, February 7, in the lecture course of the Massachusetts Horticultural Society at Horticultural Hall, Boston. Mr. Ellsworth recently returned from a study of the agricultural conditions in those countries and he gave a comparison of the methods of intensive cultivation there with the American method.

The newly elected vice-president of the American Carnation Society was born in Buffalo some forty years ago. After a public school education he was employed for a time in a dry goods store and in 1887 entered the employ of W. J. Palmer, the florist. In 1892, he purchased the business of Lawrence & Giddings and has been successful from the start owing to his up-to-date business methods. From a small space in a confectionery store, Mr. Anderson has now one of the largest flower stores in Buffalo, with



S. A. Anderson.

a branch on Elmwood avenue in connection with his greenhouses. Mr. Anderson is also State vice-president of the Society of American Florists.

Under the auspices of The Horticultural Society of New York, there will be a lecture in the East Assembly Hall, American Museum of Natural History, New York City, on Saturday, February 21, at 4 o'clock, by Alex Cumming, Jr., on "Roses." Mr. Cumming, who has had much to do with this popular flower, will undoubtedly give an interesting and practical talk on the subject. A good audience should greet him. On the same date will be held an exhibition of roses, carnations, orchids, etc., for which liberal prizes are offered.

A committee from the Holyoke and Northampton, Mass., Florists' and Gardeners' Association visited the members of the park board last Monday, requesting the reappointment of Thomas A. Bray as superintendent of parks, it being rumored that he is to be removed for political purposes. The committee represented that he had given the city excellent service and was better fitted to continue in the position than any candidate who had as yet been mentioned. It is understood that they will also have a conference with Mayor Woods over the matter later.

The Connecticut Nurserymen's Association held its annual business meeting at the Hotel Bond, Hartford, February 4. President Thomas E. Burroughs of Deep River presided. Dr. William E. Britton of New Haven, state pomologist, spoke on the desirability of uniform laws for the investigation and shipments of nursery stock between states. The following officers were elected:

President, Thomas E. Burroughs, Deep River; secretary, F. L. Thomas, Manchester; treasurer, W. W. Hunt, Hartford.

President Burroughs appointed the following committees: Legislative—E. F. Coe, New Haven; J. R. Barnes, Yalesville; Stephen Hoyt, New Canaan. Executive—C. H. Sierman, Hartford; W. W. McCartney, New Haven; Gustave Minge, Hartford. Entertainment—W. W. Hunt, Hartford; Charles Turner, Hartford; C. R. Burr, Manchester.

The next monthly exhibition of The Horticultural Society of New York will be held on Saturday, February 21st, at the American Museum of Natural History. Entries should be in the hands of the secretary not later than the morning of the 20th. Schedules are now ready, offering prizes for roses, carnations and orchids. The exhibition committee, however, is authorized to award special prizes for exhibits not provided for in the regular schedule. All are invited therefore to bring in any interesting plant or flower they may have, thus adding variety to the exhibition. Schedules will be sent upon application to the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City. A meeting of the society will be held on the same day at the same place at 3.45, followed at 4 by a lecture on "Roses," by Alex Cumming, Jr.

George V. Nash, Sec.

At the annual convention of the Tennessee State Nurserymen's Association Thursday, January 29, in the Maxwell House, Nashville, the following officers were elected:

President, Harvey M. Templeton, Winchester; vice-president-at-large, A. J. Fletcher, Jr., Cleveland; secretary-treasurer, Prof. G. M. Bentley, Knoxville; vice-president for East Tennessee, A. I. Smith, Knoxville; vice-president for Middle Tennessee, W. H. Davis, Smithville; vice-president for West Tennessee, H. Stallings, Humboldt.

Resolutions were adopted condemning the McKellar cold storage bill, now pending in Congress, as detrimental to the fruit-growing industry in Tennessee.

S. W. Crowell, who has large rose

The Service Bureau
OF THE
National Association Of Gardeners

Is maintained for the purpose of providing opportunities for efficient and ambitious men engaged in the profession of gardening. This department of the Association is at the disposal of those who may require the services of capable superintendents, gardeners or assistant gardeners. Address

M. C. EBEL, Secretary - - - Madison, N. J.
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It is an acknowledged fact, by the largest handlers of Cannas in the Country, that our divisions are of a superior grade, that they are the standard by which others are judged. Packed 250 in a box which goes at thousand rates; 10 per cent. discount on lots of 5,000 and over. Every variety we list is so distinct that we cannot fill orders for several kinds from the same bin.

	100	1000
Alphonse Bouvier. Crimson, 5 ft	$2.00	$15.00
Doctor Buddinger. Brilliant scarlet, of large size, bronze foliage, 4 ft.	3.00	25.00
Egandale. Bronze foliage, currant red flowers, 4 ft.	2.00	15.00
Florence Vaughan. Green foliage, rich golden yellow, dotted red, 5 ft.	2.00	15.00
Feuermeer. A brilliant fiery scarlet of medium size, exceptionally free flowering, 4 ft.	3.00	25.00
Gladiator. Strong vigorous grower, with fine green foliage, large heads of flowers, color is yellow spotted with red, blooms early and late, always looks cheerful, 5 ft.	3.00	25.00
Hiawatha. Variegated foliage, large flowers with large crimpled petals, color delicate pink with border of clear cerise, 5 ft.	3.00	25.00
J. D. Eisele. Brilliant vermilion scarlet, 3½ ft.	2.00	15.00
Jean Tissot. Intense brilliant vermilion, with orange shading, 3½ ft	$2.00	$15.00
Mont Blanc Improved. Almost pure white	5.00	30.00
King Humbert. In this we have the highest type of orange scarlet flowers, combined with the finest type of bronze foliage	3.00	25.00
Louisiana. Large vivid scarlet flowers, glossy green foliage.	2.00	15.00
Mme. Berat. Pink flowers, green foliage, 4 ft.	2.00	15.00
Mme. Crozy. Popular and valuable, rich orange scarlet flowers, edged with bright golden yellow, 4 ft.	2.00	15.00
Mrs. Alfred F. Conard. Exquisite salmon pink flowers, of largest size, erect and abundantly produced, rich green foliage, 4 ft.	10.00	
Niagara. Rich deep crimson, with a wide irregular border of deep golden yellow, dwarf grower	3.00	20.00
Patria. Intense light crimson, good for massing, 4 ft.	2.00	15.00
Pennsylvania. Rich bright vermilion scarlet, strong robust grower, 6 ft.	2.00	15.00
President Myers. Rich cherry carmine, bronze foliage, 4 ft..	2.00	15.00
Queen Charlotte. Rich pomegranate red, bordered with bright golden yellow, 3½ ft..	$3.00	$20.00
Richard Wallace. Canary yellow, large flower, 4½ ft.	2.00	15.00
Rubin. Bright scarlet flowers, dark foliage, 4 ft.	3.00	25.00
Rosea Gigantea. Rich rose pink flowers of giant size.	5.00	40.00
Souv. de Antoine Crozy. Beautiful red bordered with golden yellow, 3½ ft.	3.00	20.00
Venus. The color is a gay rosy pink with mottled border of creamy yellow.	3.00	20.00
Wm. Saunders. Bright scarlet, produced in great clusters, often a foot across and each on branching stems, about 4 feet, strong vigorous grower.	5.00	40.00
Uncle Sam. Clear, deep orange flowers, borne in large clusters, handsome luxuriant rich green foliage, 6 ft.	3.00	25.00
Mrs. Kate Gray. Flowers 6 in. across, color a splendid shade of rich orange scarlet, finely flaked and streaked with golden yellow tints, 5 ft.	3.00	20.00
Wyoming. Orange scarlet flowers, dark foliage, 4½ ft.	3.00	20.00

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

New Red Rose
"FRANCIS SCOTT KEY"

A Seedling of Cardinal Crossed with an Unnamed Red Seedling

Flowers large to very large with sixty and more petals opening to a high centre. Averages longer and stiffer stems than any Hybrid Tea Rose I know of under glass, A hardy and easy grower. Every florist can grow it.

It does not need coaxing or boosting. Stock limited. Plants Ready for Delivery from now on

Strong plants, own root, 2 1-2 in. pots, $30 per 100; $7 for 12 plants; $12 for 25 plants. Cash with order

JOHN COOK 318 N. CHARLES STREET BALTIMORE, MD.

gardens at Roseacres, Miss., urged a beautifying of the home grounds, with flowers and ornamental plants, pointing out that it was the lack of beautiful decorations in the home grounds which drove many to the larger cities. With the conclusion of the afternoon session, at 4 o'clock, seventy-five of the members and their wives visited the gardens of the Joy Floral Company, in Northeast Nashville. Much interest was manifested in the greenhouses and heating plants, and the horticultural methods in vogue at the Joy gardens.

A committee of three was appointed at the meeting of the Springfield, Mass., Amateur Horticultural Society last evening, to confer with similar committees from the Hampden County Improvement League and the Hampden County Horticultural Society with a view of forming one association of these three and possible other horticultural and agricultural societies. Edward J. Canning, formerly superintendent of grounds of Smith college for many years, was present and in the course of an address on "Good taste in the planning and planting of home grounds" urged that the projected association include societies of all Western Massachusetts, so that the interests represented by those societies may have a stronger and more efficient organization. He did not advocate the complete disorganization of the small societies, but urged that they meet in general conventions two or three times a year. He also urged that an arboretum be established in Forest Park. J. Alden Davis, city forester, who as president presided at the meeting, said that there is ample room in Forest Park for such an arboretum, and that he thought the city would establish one in time. He said that labels have already been ordered for such trees and shrubbery as are already in the park.

BURPEE'S BLUE LIST FOR 1914

The most complete catalogue published for **Market Gardeners, Truckers and Florists.** For the planter who "knows" it contains complete lists of all that is best in vegetables and flowers, while the grower who is uncertain as to the best varieties suited for his purpose may be guided by the bull's eye ⊙ placed after what is known to be best. In addition full descriptions are given many new and most valuable varieties.

BURPEE'S BLUE LIST FOR 1914 contains **148** pages with hundreds of halftone and engraved illustrations. Within the pages of this catalogue we have condensed an experience of thirty-five years both in handling and the actual growing of seeds.

If you garden for profit (that is, sell your products in the market) you are entitled to a copy of this complete and easily understood catalogue, but if you are a private planter please do not ask for a copy, as we must protect the Market Gardener, Trucker and Florist.

W. Atlee Burpee & Co. "Seeds That Grow" **Philadelphia, Pa.**

The "SPENCER" Type of Sweet Peas

REGISTERED VAB TRADE MARK
"The Seal of Quality"

Burpee's Unequaled List for 1914. Arranged Alphabetically. Choicest Re-selected Stocks Grown on "Floradale Farm."

SPENCER SWEET PEAS are a great specialty with us. We were the first to grow the seed in America, the stock having been entrusted to us before sent out here, even in England, of the original **Countess Spencer**. We have grown "The original Bertie" and its many "sporting" children with painstaking care each season since. There are but few Sweet Pea growers, either in England or America who can supply an equal assortment of **True** RE-SELECTED "SPENCERS" that are uniformly of such choice quality. Seedsmen and planters generally can see how superior our stocks now are by the trials at **FORDHOOK FARMS** next June or July, while those who may be in California are invited also to inspect the growing crops at our **FLORADALE FARM** in the beautiful Lompoc Valley. Every planter's garden, however, is really a trial ground and we shall be quite content if any "Doubting Thomas" will send us only a portion of his order, and **note the difference** in character of flowers produced!

		Per pkt.	Per oz.	Per ¼ lb.	Per lb.
3402	**Afterglow.** Rich electric shades of blue and rosy-mauve	$0.15	$1.00		
3406	**American Spencer.** Red flakes on white ground	.10	.25	$0.75	$2.50
3408	**Apple Blossom Spencer (Burpee's).** A large rose and pink	.10	.25	.75	2.75
3410	**Arthur Green.** Rich dark claret. A fine large flower	.10	.40	1.50	
3412	**Asta Ohn.** Soft lavender with rosy mauve suffusion	.10	.40	1.25	
3414	**Aurora Spencer (Burpee's).** Cream-white ground, flaked orange-salmon	.10	.30	.85	3.00
3418	**Beatrice Spencer.** A fine rich pink; exquisitely waved	.10	.25	.75	2.75
3422	**Blanch Ferry Spencer.** Standard rich rose, wings pinkish-white	.10	.35	1.00	3.75
3424	**Blue Jacket.** A fine rich dark blue self	.15	.75		
3428	**Captivation Spencer (Burpee's).** Rich rosy-wine red. Fine form	.10	.30	.90	3.50
3432	**Charm (Burpee's).** A lovely white with lilac-blush suffusion	.15	.65	2.25	
3434	**Constance Oliver.** A beautiful pink on cream ground	.10	.30	.85	3.00
3438	**Countess Spencer.** Rich rose pink, the original Spencer variety	.10	.25	.75	2.75
3440	**Dainty Spencer (Burpee's).** A fine white, edged rose	.10	.25	.75	2.50
3442	**Decorator (Burpee's).** Deep rose, heavily suffused terra cotta	.15	.65	2.25	8.50
3444	**Duplex Spencer.** A double-flowered rich cream pink	.10	.40	1.25	4.50
3446	**Earl Spencer.** A fine rich salmon self	.15	.75	2.50	9.00
3448	**Edith Taylor.** Bright salmon rose	.15	.75	2.50	9.00
3450	**Elfrida Pearson.** A magnificent light pink margined deeper	.15	.85		
3454	**Ethel Roosevelt (Burpee's).** Primrose ground striped pink	.10	.25	.75	2.50
3460	**Florence Morse Spencer.** A very popular blush-pink variety	.10	.30	.85	3.00
3462	**Florence Nightingale (Burpee's).** A fine true lavender self	.10	.30	.85	3.00
3464	**Florrie.** Rich pastel shades of rosy crimson lake	.15	.45	1.35	5.00
3470	**Gaiety Spencer.** White ground, flaked with rose crimson	.10	.30	.85	3.00
3472	**George Herbert.** Beautiful rich bright rosy carmine	10	.25	.75	2.50
3476	**Gladys Burt.** A rich salmon pink on cream ground	.10	.30	.85	3.00
3478	**Helen Grosvenor.** A lovely bright orange pink	.10	.40	1.10	4.00
3480	**Helen Lewis.** Rich orange pink, of large size and fine form	10	.30	.85	3.25
3482	**Helen Pierce Spencer.** White ground, mottled bright rose	.10	.45	1.35	5.00
3484	**Hercules.** A very large rich pink of excellent form	15	.65	2.25	8.00
3485	**Illuminator.** Rose, heavily suffused salmon orange. Per pkt. of 12 seeds, 15 cts.	25			
3486	**Irish Belle,** or **"Dream"** (Burpee's). A unique shade of lilac, flushed pink	15	45	1.35	5.00
3487	**Isobel Malcolm.** A very fine black-seeded cream self	10	65		
3488	**King Edward Spencer (Burpee's).** Large rich carmine scarlet self	10	25	.75	2.75
3490	**King White.** The best pure white. Per pkt. of 15 seeds, 15 cts.	25			
3492	**Lady Evelyn Eyre.** Bluish pink on white ground	.15	.45	1.35	5.00
3496	**Loyalty.** White ground, flaked with violet	.15	.65		
3498	**Margaret Atlee.** Rich pink and salmon on cream ground. Per pkt. of 20 seeds, 15 cts.	25			
3500	**Margaret Madison.** An exquisite shade of silvery blue	.10	.50		
3506	**Martha Washington.** White, edged and suffused light rose	.10	.25	.75	2.50
3511	**Mercia.** A beautiful rich buff pink on cream	.10	.45	1.50	5.50
3516	**Mrs. A. Ireland.** Rose and pink on cream ground	.10	.25	.75	2.75
3520	**Mrs. C. W. Breadmore.** Cream-buff ground, edged with pink	.10	.25	.75	2.50
3522	**Mrs. Heslington.** Rich lavender, suffused rose pink	.10	.45	1.25	4.50
3524	**Mrs. Hugh Dickson.** A lovely shade of pinkish apricot on cream	.10	.25	.75	2.75
3528	**Mrs. Routzahn (Burpee's).** Delicate pink on apricot and cream	.10	.35	1.00	3.50
3530	**Mrs. Townsend.** White ground, edged bright blue	.10	.60	2.25	
3532	**Mrs. W. J. Unwin.** White ground flaked with orange scarlet	.10	.45	1.35	5.00
3533	**Mrs. T. W. Warren.** White ground penciled deep blue	.15	.75		
3534	**Nubian.** A large, deep chocolate self	.10	.45	1.35	5.00
3539	**Orchid (Burpee's).** Rich deep lavender, slightly suffused pink	.15	1.35	5.00	
3542	**Othello Spencer (Burpee's).** A very deep, rich maroon self	.10	.25	.75	2.75
3543	**Pearl Gray Spencer.** Soft lavender or dove gray	.10	.50	1.75	
3545	**Primrose Spencer (Burpee's).** Rich cream yellow, large and fine	.10	.40	1.10	4.00
3547	**Prince George.** Rosy lilac veined rose. A pastel shade	15	.90	3.00	
3551	**Purple Prince Spencer (Burpee's).** The standard is purplish maroon, wings rosy purple	.10	.25	.75	2.50
3554	**Queen Victoria Spencer (Burpee's).** A rich primrose flushed with rose	10	.35	1.00	3.50
3567	**Rosabelle.** Rich rose carmine. Very large and fine	.15	1.25	4.50	
3570	**Scarlet Emperor.** A rich scarlet self of finest form	.15	1.00	3.50	
3572	**Senator Spencer (Burpee's).** Striped claret on heliotrope ground	.10	.25	.75	2.50
3575	**Stirling Stent.** Rich salmon, with orange suffusion	.10	.45	1.25	4.50
3579	**Tennant Spencer.** A lovely shade of purplish mauve	.10	.35	1.00	3.50
3581	**Thomas Stevenson.** An exceedingly bright orange scarlet	.10	.45	1.50	5.50
3589	**Wedgwood.** Rich azure blue. Per pkt. of 12 seeds, 15 cts.	.25			
3590	**White Spencer (Burpee's).** An extra fine strain	.10	.45	1.25	4.50
3593	**W. T. Hutchins (Burpee's).** Soft blush pink on buff and cream	10	.25	.75	2.50
3599	**The New "Burpee Blend" of Re-selected Superb "Spencer" Sweet Peas**	10	.25	.75	2.50

W. Atlee Burpee & Co.

"SEEDS THAT GROW"

PHILADELPHIA, PA.

BRITISH HORTICULTURE.

The National Chrysanthemum Society.

The committee of the National Chrysanthemum Society, London, have decided to offer during 1914 a special prize for the best anemone-centered single, subject to certain conditions. The following definition of a spray has been adopted: "A spray is the last flowering growth, consisting of one stem with a central flower or bud, and with its surrounding flowers or buds." Three exhibitions are to be held, as usual, this year, and a conference on single varieties.

Sweet Pea Novelties.

Judging from the large amount of attention which is being given to sweet peas by the seedsmen in their trade announcements, there is no slackening in the interest being taken in this charming flower. Phyllis is an improved Mrs. W. J. Unwin, an orange scarlet-flake variety; Zillah Smith is a pleasing tint of primrose, edged with rose; Constance Hinton is an acceptable addition to the white varieties, whilst King White is in the same category. Illuminator is an exquisite salmon-cerise variety. Queen Wilhelmina is likely to be very popular, owing to its charming coral shade. Other excellent kinds are: Cynthia, buff pink; Mrs. R. P. Ward, bluish mauve; Papilio, red maroon; Gustav Hamel, rosy salmon; Charles Foster, pink, slightly shaded with lavender, and Radiant, rich pink.

A New Society.

At a meeting held at Moseley, it was decided to form a National Viola and Pansy Society. W. Waters Butlers was elected president, and J. Bastock, honorary secretary. Monthly meetings will be held, and conferences have been arranged for the summer, when certificates will be awarded to new varieties. An exhibition will take place in June, for which the president has offered a challenge cup for competition.

W. H. ADSET.

LILIUM SPECIOSUM MAGNIFICUM.



This extraordinary specimen appeared in the greenhouse of Mrs. J. B. Trevor, Glenview, Yonkers, N. Y., Gardener Howard Nichols.



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Plants from 2 1-2 inch pots

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Improved
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The Chadwick family of Chrysanthemums are the highest type of the commercial varieties, and any sport of Chadwick that is an improvement will be welcomed. This new variety has its origin in the West. We have taken part of the stock and will distribute the variety the coming season. It is described as identical with the parent in all respects except form and color of the bloom. It is a perfectly formed flower and a deeper golden yellow in color.

It is a variety that will be found all that the name implies. It means better late mums, and you need it.

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Do Not Fail to get in your order early for **Matchless,** the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

This Carnation won the Dorner Memorial Medal at Cleveland, Jauuary 28, 1914

Orders Booked Now For February Delivery. (All stock sold to February 1)

Price for Rooted Cuttings, $12.00 per 100; $100.00 per 1000

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We had over twenty acres of 'Mums growing outdoors last year in order to guarantee our stock being propagated only from plants that had not been fed or forced in any way.

Send for our catalogue of over four hundred and fifty varieties, including the Gold Medal Singles; the Caprice Family, which we introduced last year; the Early Flowering varieties which are becoming the rage and all other Standard varieties.

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Early free bloomer, long stem, [illegible] splitter; a most profitable variety. [illegible] Cuttings, $5.00 per 100.

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UNFAIR PARCEL POST RATES.

After writing to the Postmaster General regarding the extending of the Parcel Post rules so as to apply to "seeds, bulbs, cuttings, scions, roots and plants," we have had in reply from the Third Assistant Postmaster General a letter which reads in part:

"In answer to your letter of the 2nd instant, which the Postmaster General has referred to me, I have to inform you that the Act of July 24th, 1888, fixes the special rate of postage of one cent for each two ounces or fraction thereof on parcels of seeds, cuttings, bulbs, roots, scions, and plants and the parcels post law provides that it shall not in any way affect such special rate. It is understood that this provision was inserted in the parcel post law at the instance of the seedsmen of the country."

Now why these items should carry a higher rate of postage than other merchandise, at the instance of the seedsmen of the country we are unable to understand.

Why consideration should be given to all these items, simply upon the recommendation of the seedsmen, when they only handle seeds, is another thing which looks "queer" at least to the writer's way of thinking. There undoubtedly must be a misunderstanding somewhere as to the seedsmen generally having recommended that the rate of postage be held higher on these items than on other merchandise, and the very thought of the thing is convincing that it is not right, inasmuch as a pound of seeds mailed at the office of any one in the trade costs as much to mail at his post office to be handed out to a customer one block away, as it does to send them over various lines or ways of carriage to the most distant parts of the country.

We wish to ask every seedsman, nurseryman and florist to write immediately to his Congressman and to the Postmaster General asking immediate legislation affecting the parcel post rates so as to apply to seeds, cuttings, bulbs, roots, scions and plants. This is certainly important and in justice to both the seller and buyer of such items, an urgent request should be made upon these officials that this error be given prompt legislation and correction.

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Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

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When you can get the cream of the cannas at almost milk prices—you should do it. Look these offers over and get out your fountain pen and hustle off your order.

There are no better cannas grown than ours. No one contradicts that. There are few as good. No one denies that.

Big fat heavy clumps—no skimping "fill in the chunks" kind. All clumps are now stored on racks—none boxed. Yours will be packed direct from the racks.

COMBINATION A.
5 WINTZER'S 1914 WINNERS.

	Each	10		Each	10
Panama	$ .75	$6.00	Jennie Walls Fabuline	$ .75	$6.00
Olympic	.75	6.00	Blanche Wintzer	2.00	15.00
Maid of Orleans	.75	6.00			

1 each, 5 in all, $3.50, or 3 such sets, $10.00.

COMBINATION B.
5 NOVELTIES NATIONALLY NOTED.

	10	100		10	100
Meteor, Red	$4.00	$25.00	Wm. Saunders	$ .65	$5.00
Kate F. Deemer	1.00	25.00	Wabash	3.00	20.00
Mrs. Alfred F. Conard	3.00	20.00			

1 each, 5 in all, $1.00, or 3 such sets, $2.50

COMBINATION C.
TWO TOO GOOD TO OMIT.

	10	100		10	100
Rosea Gigantea	$1.50	$8.00	Mont Blanc	$ .65	$5.00

1 each, 2 in all, $.50, or 3 such sets,, $1.00.

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12 ABOVE NEW CANNAS, each SET A, B, C, including also 12 King Humbert, $5.00, or 3 such sets, $12.50.

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369 RIVER ST., CHICAGO.

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From 2 and 2½ in. Pots

S. A. Nutt, Poitevine, Grant, Ricard, Buchner, Favorite, Montmort, Doyle, Viaud, etc., $2.40 per 100; $20.00 per 1000.

2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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BEGONIAS, Single in Separate Colors. Scarlet, crimson, rose, white, yellow and orange, 40c. per dozen; $2.50 per 100; $22.50 per 1000.

BEGONIAS, Single in Choicest Mixture. 35c. per dozen; $2.25 per 100; $20.00 per 1000.

BEGONIAS, Double in Separate Colors. Scarlet, rose, white and yellow, 60c. per dozen; $4.50 per 100; $40.00 per 1000.

BEGONIAS, Double in Choicest Mixture. 50c. per dozen; $4.00 per 100; $35.00 per 1000.

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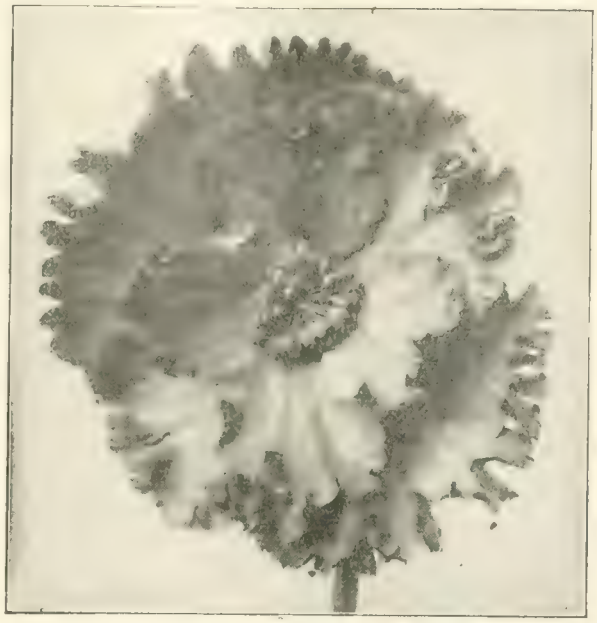
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GLOXINIAS, Dreer's Superb in Choicest Mixture or in Separate Colors. As blue, red, white, red with white edge, and blue with white edge, 60c. per dozen; $3.50 per 100; $30.00 per 1000.

GLOXINIAS, New Emperor (Hybrida Imperialis) in choicest mixed varieties, 85c. per dozen; $6.00 per 100.



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Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

THE CANNERS' CONVENTION.

The Canners' Convention of 1914 is now a matter of history and a pleasant memory. The attendance far exceeded that of any previous convention, many estimating it to be from 1000 to 1500 larger than ever before. The people of Baltimore certainly did themselves proud in the matter of entertaining, especially for the ladies. It is needless to say that Baltimore now ranks very high with the ladies who attended the convention, and its hospitality will be a standard by which that of other cities will be measured for a considerable time to come. Too much praise cannot be given the local Canners' Exchange for their untiring efforts to insure to everyone a good time. Among these may be especially mentioned, D. H. Stevenson, Secretary and F. A. Torsch, President of the Exchange. Many others devoted a great deal of time and all deserve the warmest thanks of every person who attended the Convention.

The opening session was dignified by the presence of Cardinal Gibbons, who offered prayer. This was followed by a very scholarly address by Governor Goldsborough, his text being "Maryland my Maryland." After him came his Honor Mayor Preston who fully lived up to his reputation as a gifted speaker; then the addresses of the Presidents of the National Canners' Machinery and Supplies and National Canned Foods Association. The meeting was presided over by F. A. Torsch until the chair was taken by former Governor Fernald of Maine, President of the Canners' Association.

The Exhibition.

The Machinery Hall, which was the Fifth Regiment Armory, was filled to its capacity by the exhibits of the machinery and supplies of various kinds used by the canners. For the first time the Association used the uniform, or universal booth, and the result fully justified the action of the officers and directors of the Canning Machinery and Supplies in adopting it.

Seedsmen versus Canners.

More seedsmen were represented than at any previous conventions and with one or two exceptions, they had booths. As a business convention, with the exception of the seedsmen and seed-growers, it probably was the most satisfactory ever held. Owing to a conjestion of peas in the hands of the canners, and large surpluses held by the growers, orders were smaller than usual and the canners were very independent in their attitude; and well they might be, as the seed-growers were making a very hard fight for business and cutting prices to figures unknown for a number of years. It is very doubtful if they did any more business than they would have done, ultimately, had they held for reasonable prices, but as it was coming rather slowly to suit many, they decided that a cut would help matters. As soon as they quoted the lower price to the canner, he immediately advised their competitors of the fact that he had been quoted a lower price, and demanded to know what they were going to do about it. In fact, the canners simply played one seed grower against the other, to their own benefit, and the seed growers were, with a very few exceptions, easy marks. Two or three of the largest growers stood pat for the prices they thought were reasonable and deliberately rejected business at lower figures.

It may be recalled that we stated in these columns some weeks ago, that

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Red-flowering, Green Foliage

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DUKE OF MARLBORO. 4½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
J. D. EISELE. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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PRES. MEYER. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PILLAR OF FIRE. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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Pink-flowering Cannas

L. PATRY. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
LOUISE. 5 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
MLLE. BERAT. 4½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.
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Bronze-leaved, Red-flowering Cannas

BRANDYWINE. 4 to 5 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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EGANDALE. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
KING HUMBERT. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
LEONARD VAUGHAN. 4½ feet. $3.75 per 100; $35.00 per 1000.
MUSAEFOLIA. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
ROBUSTA. 6 to 8 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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DUKE OF YORK. 4 to 5 feet. 15 cts. each; 60 cts. per doz.; $4.25 per 100; $40.00 per 1000.
GLADIATOR. 4 feet. 30 cts. per doz.; $2.00 per 100; $18.00 per 1000.
GLADIOFLORA. 3½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
JEAN TISSOT. 5 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
MAD. CROZY. 5½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
QUEEN CHARLOTTE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
PREMIER. 2½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
SOUV. DE A. CROZY. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orange Shades

WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
PENNSYLVANIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
MRS. KATE GRAY. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orchid-flowering Cannas

ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
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INDIANA. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.00 per 1000.
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DR. BUDINGEN. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
DR. ROBERT FUNCKE. 4½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
FURST BISMARCK. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
WILLIAM SAUNDERS. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

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ARTHUR T. BODDINGTON

SEEDSMAN 342 West 14th Street, NEW YORK CITY

in our humble opinion, the prices named by many of the seed growers at that time were too high. Since then, most of these prices have been materially reduced and are now on what would seem to be a fair and reasonable basis. And it was for these prices that a few of the more conservative growers stood. As already stated, they could have booked considerable business, had they been willing to meet the figures of their more excitable and panicky competitors. They refused to do this, however, and probably will lose nothing worth having, in the long run. Many of the canners seem to be obsessed with the idea of buying cheaply, and did not hesitate to break ties of many years standing for a matter of 10 or 15 cents per bushel. Many may have good reason to regret this ere the finish of another pack.

Officers Elected.

The new officers of the various associations were elected on Wednesday of the Convention week. W. C. Leitsch, of Columbus, Wis., being elected President of the Canners' Association, while the Canning Machinery and Supplies Association and the Canned Goods Brokers' Association re-elected the same officers who served the past year —Richard Dallam for the Brokers, and W. C. Langbridge for the Canning Machinery and Supplies Association.

Place for Next Convention.

The place for the next Convention is just now engaging the very serious consideration of the three Presidents, and it is understood that a referendum vote of their various associations is being taken with a view to ascertaining the sentiments of their members regarding this matter. It may here be said that California is making a very strenuous bid for the 1915 Convention, and that a very strong sentiment in favor of California exists in the three associations. It will, no doubt, be several weeks before the matter is finally determined.

Report of the Seed Harvest, 1913.

By L. Dachnfeldt, Odense, Denmark

Rutabagas have given only a poor crop; White Turnips only about 25 per cent of a normal crop and Yellow Turnips a tolerable average crop. Carrots promise a good crop. Peas has given about average and of Dill only a short average crop can be expected. Kale has yielded very good, but only small areas have been cultivated this year. Cauliflower crops look very satisfactory. Brussels Sprouts and Red Cabbage have given a good crop. The late varieties of Cabbage have yielded well, but the early strains have on the contrary given a very small crop. Parsley curled will hardly give an average crop. Parsley rooted is very late and the crop will be poor. Radishes will probably give below average harvest, and the varieties for forcing only a very small crop. Beets yield well, but are somewhat late. With Salsify there were only small areas laid out, and the crop has been far below expectation. Only small areas are planted with Celery, and the crop is, owing to the continual dryness, rather short. Spinach is also partly below expectation in Denmark, but the harvested seed is very fine.

Regarding flower seeds the most open ground varieties are giving a good crop, especially calendula, chrysanthemum, clarkia, cynoglossum, larkspur, eschscholtzia, godetia, gypsophila, candytuft, lupinus, popies and mignonette. A few varieties of sweet peas give a good crop, but the main part of them yield below the average. Asters looked very good during the summer; however, the plants are late, and there can only be expected a small crop, especially of the dwarf varieties. Snapdragons and mignonette will give an average crop. Pansy mixed and in varieties are very good harvested, only a few sorts having suffered in winter. Helichrysum have suffered somewhat owing to the rain, but the harvest will be an average.

Chicago Seed Notes.

Sales of onion sets for January and February delivery have been brisk and only a moderate supply is left for the two months still in the season. The slight shortage in the crop and the excellent quality of the sets have left no chance of a surplus in this market and market gardeners are laying in their supplies early. M. Kirkeby & Co., who have a large place at 5225 Norwood Park avenue and make onion sets their specialty, say the supply will be sold out early. They give the market quotations now as $1.50 per bushel of 32 lbs. on reds and $2.00 on yellows and whites, in small lots. Some discount from this is made on large lots. They grew 150 car loads this year.

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Albert Lea, Minn.—Robert H. Black, 138 E. William street.

You Can Make Big Cash Profits By Devoting Your Attention To The Sale Of

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Plant seeds now. When potted Asparagus Plumosus Nanus offer sells at $1.00, or over per hundred during June, July and August. Northern greenhouse-grown strain Asparagus Plumosus Nanus, $3.25 per 1000; $15.00 per 5000. Asparagus Hatcheri, 100 seeds $1.00; 1000 seeds, $6.00

Aster Seed

Queen of the Market

	Trd. Pkt.	Oz.
Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choiced Mixed	.20	.65

Wire or write for our 1914 Wholesale Catalog. It will save you money. Contains complete list of best novelties and standard varieties. Get it.

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Cineraria maritima candidissima	.oz	.20	per oz
Geranium, Apple scented	.oz	.25	per 100 seed
Hibiscus grandiflorus, "Sunset"	.oz	.25	per ⅛ oz
Mignonette Pyramidalis Triumph	.oz	.50	per ⅛ oz
Pink plumarius, double and semi double	.oz	.35	per ⅛ oz
Petunia hybrida, fine mixed	.oz	.20	per ¼ oz
Petunia Hybrida Inimitable, striped and blotched	.oz	.30	per ¼ oz
Poppy, The Shirley extra selected mixture	.oz	.15	per ¼ oz
Salpiglossis Emperor, Choicest mixed	.oz	.30	per ⅛ oz
Tagetes signata pumila, Golden Gem	.oz	.20	per ¼ oz

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Erfordi. 50c. per pkt., 1/16 oz., $1.50
Semperflorens Rose. ¼ oz., 50c
Semperflorens Vernon. ¼ oz., $1.00
Graciiis Luminosa. 25c. per pkt.

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Imperialis. White, 50c. per oz.
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Maritima. 15c. per oz
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MIGNONETTE.
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Prinzess Irene, N. Y.-Medit'n..Feb. 28

Red Star.
Zeeland, N. Y.-Antwerp. .....Feb 18
Samland, N. Y.-Antwerp.....Feb 25

White Star.
Oceanic, N. Y.-Southampton..Feb. 18
Adriatic, N. Y.-Mediter'n.....Feb. 21
Cedric, N. Y.-Liverpool. .....Feb. 26
Arabic, Boston-Liverpool.....Feb. 28

Loveland, O.—Robbins & Sons, 863 Cleveland avenue, successors to N. E. De Golier.

NEWS NOTES.

Detroit, Mich.—The Michigan Cut Flower Exchange will remove to their new store on Randolph street on March 1st.

Wilmette, Ill.—The Star Floral Company plant, consisting of 100,000 feet of glass, has been purchased by A. T. Pyfer and Peter Olsem, both of the Chicago Carnation Co.

Stamford, Conn.—J. Lindsay Hoyt has sold, as trustee for the creditors of Hilary E. Le Page, his property in this city to Hugh S. Campbell. The property consists of fixtures and tools and utensils of the florist business as well as many flowers and plants.

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Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Alton, Ill.—Fred Hebner has bought the Doepke greenhouse and will move it to his range on W. Edwards street.

East Orange, N. J.—The Mead-Suydam Co., manufacturers of concrete benches have moved from this city to 159 North 15th street, Newark.

Norristown, Pa.—Adolf Muller, proprietor of the DeKalb Nursery, has purchased the Springtown Farm, consisting of 50 acres, and will enlarge his business.

Franklin, Mass.—The state has purchased a tract of land from what has been known as the Oscar Shaw farm at North Boscawan for tree nursery purposes. The nursery, which has adjoining land leased from A. R. Ayers three years ago, was instituted as an experiment.

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CHICAGO NOTES.

Glass Prices and Building Outlook.

Prices on glass in this market continue firm and are practically the same as they have been during the past year. Sharp, Partridge & Co., specialists in greenhouse glass, and well-known all over the country, are of the opinion that there will be an unusual amount of building this spring, and that there will be no decline in prices on glass, which now are a little higher than the average of the last five years, but lower than the average of the last twelve years.

Manager Phil. McKee of The John C. Moninger Co., thinks the chances good for an advance in the price of glass, which just now is quoted in Chicago as 90 per cent and 15 per cent on single and 90 per cent and 20 per cent on double strength for window glass and a little less on greenhouse sizes. Mr. McKee says the prospects are good for an unusual amount of greenhouse building this spring and that among their orders now booked is that of P. Cudahy for four houses, 57 by 320, at Cudahy, a suburb of Milwaukee, Wis.

Trade Notes.

Frank Oechslin, who has had a serious attack of grippe is now able to be about again.

Another retail store in the "loop" at 7 W. Monroe St., was opened last week. K. Panakos, who has a store also on 125th St., New York, is proprietor.

Announcements have been received here of the change of address of the Los Angeles Flower Market, of which Frederick Sperry is secretary. For many years he was connected with the trade here.

The machinery is humming now at the new Foley Greenhouse Manufacturing Co.'s plant. A handsome order recently booked is for a large dome roofed palm house and two greenhouses, at Notre Dame, Ind.

C. Loveridge of Peoria, J. F. Ammann of Edwardsville, Ill., and Albert T. Hey of Maywood, Ill., met in Chicago last week to plan for the meeting of the Illinois State Florists' Association, at Danville, Ill., March 10-11.

H. M. Frank and F. C. Moore of the Heiss Co., Dayton, O., spent a few days in Chicago visiting the large greenhouse establishments, getting pointers on greenhouse construction. They are planning to build in the near future.

Mrs. Julia A. Wratkowsky, who has conducted the retail store at 27 N. Dearborn St., for a number of years, under the name of Jegen, filed a petition in bankruptcy and notices have been sent to the creditors. The liabilities are said to be $3000 and an effort will be made to settle without the expense of a receiver.

Many of the wholesale florists regret that so much of the efforts to push St. Valentine's Day to the advantage of the trade, should be limited almost exclusively to the sale of violets. When the only special box for that day was a heart-shaped one, there was more excuse for pushing the violets but now when there are specially designed long boxes, roses, carnations and other flowers can be used to just as good advantage.

The thermometers registered 14° below zero early Suday morning at some of the greenhouse establishments within the city limits, and a high wind prevailed all day, making the work of keeping the temperature right, one of much difficulty. It was a case of practical demonstration of the difference between the old-fashioned helter-skelter -way of building and the compact modern way, when it comes to keeping the house warm, when the piercing winds blow across the prairies.

A. T. Pyfer, for many years manager of the Chicago Carnation Co., and Peter Olsem, supt. of the plant at Joliet, Ill., are now launched into business for themselves, having purchased the Star Floral Co.'s place at Wilmette, Ill., Feb. 3rd. Mr. Olsem moved his family there immediately and will give the place his personal supervision. Mr. Pyfer will retain his connection with the Chicago Carnation Co. for the present and the stock of the new place will be handled with the other at 30 E. Randolph street. Frank Fisher is in charge at Joliet.

WASHINGTON NOTES.

Gude Bros. Company are about to begin the rebuilding of the houses at their Northeast plant on Bladensburg Road, at a cost of about $2,000, and are also rebuilding two houses in Anacostia at an estimated cost of $4,000.

William E. McKissick, now of the Leo Niesson Company, Baltimore, Md., visited Washington and his many friends here. Mr. McKissick states that some of the growers who are marketing their production through the Niesson Company will shortly extend their operations and build new houses.

Elmer C. Mayberry, formerly of Mayberry & Hoover, with John C. Walker and Earl S. Kump, has incorporated the Du Pont Flower Shop with a capital stock of $10,000 divided into one hundred shares at $100 each. The shop is to be located at 6 Du Pont Circle and will be opened for business about March 1.

M. J. McCabe, of Good Hope Road, Anacostia, is about to materially increase his production with a view to entering the wholesale end of the business. Mr. McCabe is producing some very fine carnations at the present time and some of his snapdragon (Victoria) with nine-inch heads and five-foot stems is without a peer. He also is showing some very good gardenias of which he has one house.

There is considerable agitation in Congress at present looking to the removal of the National Botanic Gardens from its present site on the east end of the Mall to a tract of 400 acres to be allotted for that purpose in Rock Creek Park. Should the removal take place, the gardens would be increased to take in trees that would grow in this climate. Representative Slayden has introduced a bill in the House of Representatives for that purpose.

The work of decorating the executive mansion at Richmond on the occasion of the inauguration of the Governor of Virginia, fell to George H. Cooke. Fully 300 American Beauty, 600 Killarney, 600 carnations, many gardenias and a large quantity of Farleyence ferns, potted ferns and palms, etc., were required to complete it. A novel feature was the covering of a buff-colored wall with bronze galax leaves, the use of garlands of galax leaves and the decorating of the dinner tables to match the color of the ices, creams, etc., furnished by the caterer. Salmon pink cyclamen, primroses, and Spencer sweet peas, garlanded with Farleyence fern were used to good advantage in designs on the tables. The entire decoration was one of the handsomest seen in this section for some time and is to be repeated at an early date when the Governor will give another brilliant reception.

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A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	$2.50 per doz.		4	24 inches high,	$5.00 per doz.	
2	15 "	"	3.50 "	"	5	30 "	"	6.50 "	"
3	18 "	"	4.00 "	"	6	36 "	"	9.00 "	"

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During Recess

Westchester and Fairfield Horticultural Society.

The annual entertainment held at Mechanics Hall, Stamford, Conn., on Wednesday evening, Feb. 4th, was a decided success with a large number of the gardeners with their families and friends present, together with numerous seedsmen's representatives and nurserymen, filling the hall to overflowing. The vocal and instrumental selections were all very fine and greatly enjoyed, as well as the minstrel features and sleight of hand tricks and the colored views of travel in the British Isles.

John M. Brown of Stamford was presented a beautiful silver loving cup suitably engraved, as a token of esteem and appreciation of the exhibitors at the recent fall show, the success of which was largely due to Mr. Brown's able management. The presentation speech was made by President Williamson. Mr. Brown responded feelingly and assured the members of his continued hearty support. A buffet lunch was served and the floor was cleared for dancing. The fine combination of good music, excellent floor and able floor management by James Johnston, gave all present an opportunity to indulge in all the old dances as well as some of the latest. The party dispersed about 1 o'clock, with everybody satisfied that they had spent a very pleasant and enjoyable evening.

P. W. Popp.

New Jersey Floricultural Society.

The 19th annual dinner of the above society was held at the Plaza Hotel, Orange, N. J., on Monday, Feb. 2nd, at 8 P. M. The tables were beautifully decorated with the exhibits for the monthly competition and produced a striking effect. The toastmaster was J. Austin Shaw, who introduced the various speakers in his own inimitable way. W. A. Manda responded to the toast of "Our American Friends Across the Sea"; Frederick W. Kelsey to the "Nurserymen;" John E. Lager to the "N. Y. Florists' Club;" Frank Drear, the former president, to the "Park and Shady Tree Commissioners;" Edwin Thomas (president) to the "Good Fellowship of the Society;" J. J. Wilson to the "Seedsmen;" and Geo. W. Strange to the "Ladies." Pianoforte selections were rendered by Geo. C. Lindermann and vocal numbers from J. Finnegan.

Prize winners were: 1st, Jos. A. Manda; 2nd, Max Schneider; 3rd, Wm. Reid.

Geo. W. Strange, Secy.

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Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

The sixth annual dinner of the New York and New Jersey Association of Plant Growers will be held on Monday evening, February 23, 1914, at 6.30 P. M. in the Green Room at the Hotel McAlpin, Broadway and 34th street, New York. There will be a first class entertainment for which the best music and vaudeville acts have been engaged. After the dinner, the floor will be cleared for dancing.

BUSINESS TROUBLES.

Grand Forks, N. D.—J. V. Wickler, proprietor of the Wickler Floral Co., assets, $1,850; liabilities, $6,122.

STUNG.

Waterbury, Feb. 4.—It was learned today that Frank Miller, who recently escaped from the Cheshire Reformatory, where he had been confined on a charge of forgery, had taken refuge in the greenhouses of Alexander Dallas, on the evening of his escape and that he was found there by one of the greenhouse employees, James Kornofsky, who mistook him for the new fireman who was supposed to come Monday and treated him in a hospitable manner. He helped him dry his wet clothes and did what else he could to make Miller as comfortable as possible. In the morning when the employees returned to the greenhouse, they found everything upset, and several articles of wearing apparel belonging to some of the men gone. Miller is still at liberty.



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$1.50–$4.00 Doz.

We have quantity as well as quality, and in large lots we can quote special prices. All grades are perfect flowers. The difference is in the size of flowers and length of stem.

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Roses	CINCINNATI February 2	CHICAGO February 10	BUFFALO February 2	PITTSBURG January 26
Am. Beauty, Special	25.00 to 40.00	35.00 to 40.00	60.00 to 75.00	..... to 60.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 30.00	40.00 to 50.00	40.00 to 50.00
" " No. 1	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
Killarney, Extra	10.00 to 15.00	12.00 to 15.00	15.00 to 20.00	15.00 to 18.00
" Ordinary	6.00 to 10.00	6.00 to 10.00	4.00 to 6.00	6.00 to 12.00
Richmond, Hillingdon, Extra	10.00 to 15.00	10.00 to 15.00	8.00 to 10.00	10.00 to 15.00
" " Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00 to 10.00	10.00 to 15.00	15.00 to 20.00	8.00 to 12.00
" " " " Ordinary	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to 20.00	..... to	..... to .....
Carnations, Fancy	3.00 to 4.00	3.00 to 4.00	2.50 to 3.00	..... to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50	2.00 to 3.00
Cattleyas	35.00 to 50.00	35.00 to 50.00	25.00 to 35.00	35.00 to 40.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 12.50	10.00 to 12.00	... to 15.00
Callas	10.00 to 12.50	10.00 to 12.00	10.00 to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	3.00 to 4.00	3.00 to 4.00	..... to 3.00
Freesias	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00
Daffodils	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	..... to 4.00
Tulips	4.00 to 5.00	2.00 to 4.00	2.50 to 3.00	..... to 4.00
Violets	.75 to 1.00	.25 to .75	.60 to .75	..... to .75
Mignonette	5.00 to 6.00	..... to	2.00 to 5.00	4.00 to 6.00
Daises	1.00 to 1.50	..... to	1.00 to 1.25	..... to 3.00
Sweet Peas	1.00 to 1.50	1.00 to 2.00	.50 to 1.00	.50 to 1.50
Gardenias	20.00 to 25.00	25.00 to 30.00	..... to	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	12.50 to 15.00	12.00 to 15.00	... to 15.00	..... to 15.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00	30.00 to 35.00
" " & Spren. (100 bchs.)	35.00 to 50.00	25.00 to 50.00	25.00 to 35.00	30.00 to 35.00

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Flower Market Reports

BOSTON The market this week is devoid of activity, although there is no very heavy overproduction excepting on some of the bulbous material, particularly tulips and yellow narcissi. Both of the latter have been dragging badly and the same may be said of violets and cattleyas. On the other hand, carnations have moved up a peg and all that come in find a ready demand at good prices. Roses are holding their own very steadily and are of excellent quality generally. American Beauty still brings the $9 a dozen price for special stock and there is no surplus. Sweet peas are moving very satisfactorily, especially the Spencers, which bring three to four times as much as the old type realizes.

BUFFALO Trade continues quite satisfactory though there are some days during the week that things are not as bright as looked for. Spring flowers have taken well up to a few days ago and now the market is rapidly filling up and prices have declined somewhat. There has been enough of everything and carnations of poor quality in particular, which are carried along, but select stock finds ready sales and there are some good Beacon, Enchantress, White Wonder, White Perfection, Melody and Ideal coming in, the latter having fine color and stem though the bloom is somewhat smaller than Enchantress. Short roses are not coming on in any quantity, but there are enough selects in Killarney and the Sunburst. Lily of the valley is plentiful, also violets and gardenias and the demand light. Orchids are good and reasonable in price. The supply of lilies equals the demand. Peas, mignonette, stocks, narcissus, Roman hyacinths and freesia are also in good supply.

CHICAGO A complete change in weather has brought more or less change in market conditions. With several days of sunshine, flowers have had more light than for many weeks previous and have responded accordingly. While it will take some time to put the plants in a strictly normal condition, the increase in cut of roses is already perceptible and quality is improved also. The market is almost too well supplied with violets, home-grown singles coming in in quantity and New York doubles are being rushed to this market. Sales for St. Valentine's Day are expected to be very large in all lines and especially in violets, though no great number of advance orders are reported. Tulips are coming more freely and prices on good stock are holding up well to the advantage of the growers, while the short-stemmed small tulips are left unsold or moved at a loss. American Beauties are gaining in color and in stiffness of stem as the result of colder weather and sunshine. Common ferns are now selling at $3.00 per 1000.

CINCINNATI Real wintry weather prevails for the first time this year. Of course weather such as this is no particular incentive to business and on Monday, the general replenishing day for the florists, the buyers seemed to buy only that which they were certain they needed. The average demand last week just about took up all stock that was worth while. Prices from a buyer's point of view were fair. Roses are still in a very limited supply and the receipts are hardly sufficient for average requirements. Carnations, on the other hand, are fine and come in in good quantities. Excellent sweet peas are offered in liberal quantities. The violet market has been rather poor but a good market is expected for both kinds at the end of the week. Everything else in good supply.

NEW YORK The viciously cold weather with which this week has started out has taken about all the remaining life out of the flower trade, eating up the coal on the one end and freezing up the buyers at the other—a case of "burning the candle at both ends"—which pleases nobody. Valentine's Day may start up something, but at present writing it is not particularly encouraging as to outlook. Bulbous stock of all kinds is very abundant and is accumulating in wholesalers' hands, awaiting the arrival of the bargain hunter who unfortunately is a scarce commodity in the wholesale district. Carnations are moving fairly well, everything considered. Roses are fine, but they move with exasperating slowness. Violets are unloaded with difficulty and cattleyas keep them company. Many "odds and ends" of pretty things, such as wallflowers, dasies, cornflowers, calendulas, primroses, etc., are at the disposal of the buyers at present. These, as well as Spencer sweet peas are easily disposed of.

(Continued on page)



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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON February 12	ST. LOUIS February 2	PHILA. February 2
Roses			
Am. Beauty, Special	50.00 to 75.00	35.00 to 50.00	..... to 75.00
" " Fancy and Extra	20.00 to 30.00	15.00 to 25.00	40.00 to 60.00
" " No. 1	10.00 to 15.00	10.00 to 12.50	8.00 to 25.00
Killarney, Extra	8.00 to 12.00	8.00 to 10.00	6.00 to 12.00
" Ordinary	4.00 to 6.00	4.00 to 6.00	3.00 to 5.00
Richmond, Hillingdon, Extra	8.00 to 12.00	8.00 to 10.00	6.00 to 15.00
" " Ordinary	4.00 to 6.00	4.00 to 6.00	3.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 10.00	6.00 to 12.00
" " " Ordinary	4.00 to 6.00	4.00 to 6.00	3.00 to 6.00
Russell, Shawyer	15.00 to 20.00	..... to	6.00 to 35.00
Carnations, Fancy	3.00 to 4.00	2.00 to 3.00	4.00 to 6.00
" Ordinary	2.00 to 3.00	1.00 to 1.50	2.00 to 3.00
Cattleyas	20.00 to 25.00	40.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	10.00 to 12.00	10.00 to 12.00	12.50 to 15.00
Callas	..... to 12.00	10.00 to 12.00	12.50 to 15.00
Lily of the Valley	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00
Freesias	1.00 to 2.00	2.00 to 3.00	2.00 to 5.00
Daffodils	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00
Tulips	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00
Violets	.35 to .50	.25 to .60	.25 to 1.00
Mignonette	4.00 to 6.00	4.00 to 6.00	3.00 to 6.00
Daisies	..... to 2.00	..... to	2.00 to 3.00
Sweet Peas	.75 to 2.00	.35 to .60	.40 to 2.00
Gardenias	10.00 to 25.00	..... to	8.00 to 25.00
Adiantum	75 to 1.00	1.00 to 1.25	1.00 to 1.50
Smilax	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	10.00 to 25.00	15.00 to 25.00	35.00 to 50.00

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ROSES AND CARNATIONS	Last Half of Week ending Feb. 7 1914	First Half of Week beginning Feb. 9 1914
American Beauty, Special	50.00 to 60.00	50.00 to 60.00
" " Fancy and Extra	30.00 to 40.00	30.00 to 40.00
" " No. 1	10.00 to 20.00	10.00 to 20.00
Killarney, Extra	8.00 to 10.00	8.00 to 10.00
" Ordinary	3.00 to 8.00	4.00 to 6.00
Richmond, Hillingdon, Extra	8.00 to 12.00	8.00 to 12.00
" " Ordinary	3.00 to 6.00	4.00 to 6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 12.00	8.00 to 12.00
" " " " Ordinary	4.00 to 8.00	4.00 to 8.00
Russell, Shawyer	4.00 to 15.00	4.00 to 15.00
Carnations, Fancy Grade	2.00 to 3.00	3.00 to 4.00
" Ordinary	1.50 to 2.00	1.50 to 2.00

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Flower Market Reports

(Continued from page 241)

PHILADELPHIA

Stock continues to arrive in large quantities and there has been some recession in price here and there. The downward tendency is especially noticeable in sweet peas and carnations. Violets, also continue too plentiful as they have been for several weeks back. American Beauty roses are largely neglected, consequently on short supply and high price. There is always a limit. If they go too high there are other good things to fall back on. A feature of the week was the large amount of memorial work. This had a marked effect on white flowers—white roses, lilies, lily of the valley, etc. Prices on roses generally are in most cases rather easier. As St. Valentine's Day approaches a pulse beat for advance can be heard by the iron-faced and stone-deaf buyers. To ordinary people these mild pulse beats are very noticeable. By ordinary people we mean the mild-faced growers with ears attuned to spiritualistic forces. Orchids are shortening up and hope dawns. The market of their dreams—like smiling morn whose rosy fingers already gilds the hills with joy. Cattleya Trianæ, Phalænopsis Schilleriana and Oncidium splendidum are the most conspicuous at present.

ST. LOUIS

The market has been good in supply and demand, although the recent cold weather made things somewhat dull in retail circles and this of course, affected the wholesale market somewhat. Prices have been stationary, but are expected to go up a few cents for St. Valentine's Day. Sweetpeas, violets and carnations are most plentiful, with prices low all week. Roses are looking up somewhat now, and in another week all will be in crop. Other regular market staples are equal to all demands.

WASHINGTON

The supply of flowers of all varieties shortened up materially the latter part of the week due to a sudden drop in the temperature. The month opened up with the mercury reaching the 70 degree mark and above; flowers began to bloom in the public parks and it was feared that the azaleas, held back for the Easter business, would bloom prematurely. some of the growers being forced to whitewash their houses to deaden the rays of the sun. As a result, there is a grave possibility of a shortage of locally grown azaleas for Easter. The lily crop will be exceptionally good from all reports. With the temperature below freezing, the sale of violets and sweet peas on the streets has decreased to a marked extent. The latter flowers could be bought at as low a figure as $5 per thousand, but the price has since advanced. Spencer type is bringing $1.50 to $2.00 per hundred. The majority of the jonquils and narcissi offered in the local market are being shipped in from other places. The growers hereabouts have come to the conclusion that the production of these flowers can only be accomplished at a loss and are devoting their houses and labor to other purposes. Gardenias are still holding their price of $3 per dozen. American Beauty roses are poor in quality and are meeting with but a very nominal demand. Carnations brought $5 per hundred the earlier part of the week and it is expected that $4 will be the bottom price for some time to come.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 7 1914	First Half of Week beginning Feb. 9 1914
Cattleyas	10.00 to 40.00	10.00 to 40.00
Lilies, Longiflorum	6.00 to 10.00	6.00 to 10.00
Callas	10.00 to 12.00	10.00 to 12.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 3.00	1.00 to 3.00
Tulips	2.00 to 3.00	2.00 to 3.00
Violets	.15 to .50	.15 to .50
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	4.00 to 12.00	4.00 to 12.00
Gardenias	4.00 to 10.00	4.00 to 16.00
Adiantum	.50 to .75	.50 to .75
Smilax	6.00 to 12.00	6.00 to 12.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	20.00 to 50.00
" " & Spren (100 bunches)	10.00 to 20.00	20.00 to 50.00

PERSONAL.

John Clark, for many years assistant superintendent of the U. S. Botanic Garden at Washington, D. C., resigned his position on Jan. 31. His present address is 400 Fulton St., Riverton, N. J.

After 38 years of service with the McLean Hospital, 20 in Somerville and the last 18 at the Waverley site, Mr. Coldrick has been forced to resign as florist and superintendent of the grounds because of ill-health.

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Visitors in Buffalo—Prof. E. A. White of Cornell University, Ithaca, N. Y.; George Vanzyverden, Lisse, Holland; Bob Schock, of Rice & Co., Philadelphia, Pa.; F. Alberts of Rochester, N. Y.; John Von Zonneveld and wife; Enos B. Sage and wife of Bradford, E. C. Campbell of Rochester; Emil Thoman of Rochester; S. J. Goddard, President of the Carnation Society; Mr. Grullerman of Holland; W. J. Stewart, Boston.

OBITUARY.

W. A. Daggett.

W. A. Daggett, a life member of the S. A. F., died at his home in Boston, Mass., on February 9, aged 73 years. While not directly engaged in horticultural work Mr. Daggett was in close touch with the florist trade and an intimate associate of the late Edmund M. Wood of Natick, through whose influence he became a life member of the S. A. F. The cause of his death was pneumonia.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

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Wizard Brand Cattle Manure.
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Consumers' Fertilizer Co., New York City.
Mak-Gro, Odorless Plant Food.
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Hudson Carbon Co., Ballston Spa, N. Y.
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FLORISTS' LETTERS

Boston Florist Letter Co., Boston, Mass.
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FLORISTS' SUPPLIES

N. F. McCarthy & Co., Boston, Mass.
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M. Rice Co., Philadelphia, Pa.
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Reed & Keller, New York City.
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S. S. Pennock-Meehan Co., Philadelphia, Pa.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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Welch Bros. Co., Boston, Mass.
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Komada Bros., Philadelphia, Pa.

FLOWER POTS

W. H. Ernest, Washington, D. C.
Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FUNGINE

Aphine Mfg. Co., Madison, N. J.
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GALAX

Michigan Cut Flower Co., Detroit, Mich.
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Kervan Co., New York.
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GERANIUMS

R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
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Alonzo J. Bryan, Washington, N. J.
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J. E. Felthousen, Schenectady, N. Y.
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GERANIUMS

	Per 1000
1600 Beauty of Poitevine, 2-in.	$20.00
3000 S. A. Nutt, 2-in.	18.00
3000 S. A. Nutt, 3-in.	27.50
1000 La Favorite, 3-in.	26.00

250 at 1000 rates. This is fine stock but we must have room. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

GLADIOLUS

Bidwell & Fobes, Kinsman, Ohio.
Gladiolus Niagara

John Lewis Childs, Flowerfield, N. Y.
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Gladioli, Large Bulbs for Forcing: Augusta, America, Shakespeare, Serasalde, Columbia, Wezinscott, Planting Stock of B. Hulot, and Scarsdale. Write for prices. GEO. J. JOERG, Gladioli Grower, New Hyde Park, L. I., N. Y.

GLADIOLUS—Continued

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

GLADIOLI: ALL HOME GROWN
America and Mrs. King in different sizes; Extra Florists' Light, containing some sorts earlier than America and good sellers. MINNESOTA, tall early cream, one of best, all sizes below 1¼; GOLDEN KING, Alice Carey, Baron Hulot, Baltimore, Burrell, Chicago White, Cracker Jack, EARLY PINK (King Style), Klondyke, MAUDE, Mrs. Beecher, Princeps, Scarsdale, Mme. Monneret, Childsi, Nanceianus, Selected Blues, Niagara, Europa, Panama and others. Write for prices.
GEO. S. WOODRUFF, Independence, Iowa.

GLASS

Sharp, Partridge & Co., Chicago.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GLOXINIAS

Henry A. Dreer, Inc., Philadelphia, Pa.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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Frank Van Assche, Jersey City, N. J.
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Metropolitan Material Co., Brooklyn, N. Y.

S. Jacobs & Sons, Brooklyn, N. Y.
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Lord & Burnham Co., New York City.
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GREENHOUSE CONSTRUCTION

Bird Steel-frame Greenhouse Co., Inc.,
New York City.
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King Construction Co., N. Tonawanda, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.
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Frank Van Assche, Jersey City, N. J.
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Pierson U-Bar Co., New York City.

Metropolitan Material Co., Brooklyn, N. Y.

Hitchings & Co., New York City.
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Lord & Burnham Co., New York City.
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GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
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Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
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The Kervan Co., New York
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HARDWOOD ASHES

Unleached Hardwood Ashes For Sale.
GEORGE L. MUNROE & SONS, Oswego, N. Y.

HART'S HANDY HANDLES

Geo. B. Hart, Rochester, N. Y.
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HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
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Bird Steel-frame Greenhouse Co., Inc.,
New York City.
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Lord & Burnham Co., New York City.
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HELIOTROPES

Alonzo J. Bryan, Washington, N. J.
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HERBACEOUS PERENNIALS

Bay State Nurseries, No. Abington, Mass.
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P. Ouwerkerk, Hoboken, N. J.
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Bobbink & Atkins, Rutherford, N. J.
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Old Town Nurseries, M. P. Haendler,
Prop., South Natick, Mass.
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HOSE

H. A. Dreer, Philadelphia, Pa.
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HOT-BED SASH

A. T. Stearns Lumber Co., Neponset, Mass.
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Parshelsky Bros., Brooklyn, N. Y.
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Lord & Burnham Co., New York City.
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INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine and Fungine.
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Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
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Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
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The H. A. Stoothoff Co., Mt. Vernon, N. Y.
Aphicide Powder.

R. P. Palethorpe Co., Inc., Clarksville,
Tenn.
Nicoticide, the Insecticide.
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Wm. Elliott & Sons, New York.
Scalecide.

Eastern Chemical Co., Boston, Mass.
Imp Soap Spray.
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Tobacco Stems, $1.00 hundred pounds.
U. CUTLER RYERSON, 108 3d Ave.,
Newark, N. J.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
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LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters
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R. M. Ward & Co., New York, N. Y.
Horseshoe Bulbology.
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Fottler, Fiske, Rawson Co., Boston, Mass.
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In writing to Advertisers kindly mention Horticulture

LILY OF THE VALLEY PIPS
August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
Berlin Valley Pips.
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Otto Heinecken, New York City.
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J. M. Thorburn & Co., New York City.
Cold Storage.
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Chas. F. Meyer, New York City.
Cold Storage Lily of the Valley.
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Fottler, Fiske, Rawson Co., Boston, Mass.
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Alonzo J. Bryan, Washington, N. J.
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NATIONAL NURSERYMAN
National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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NIKOTEEN
Nicotine Mfg. Co., St. Louis, Mo.
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NIKOTIANA
Aphine Mfg. Co., Madison, N. J.
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NURSERY STOCK
P. Ouwerkerk, Weehawken Heights, N. J.
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Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
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Bobbink & Atkins, Rutherford, N. J.
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W. B. Whittier & Co., South Framingham, Mass.
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August Rolker & Sons, New York City.
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Breck-Robinson Nurseries, Boston, Mass.
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Otto Heinecken, New York City.
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Old Town Nurseries, M. P. Haendler, Prop., South Natick, Mass.
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PRIVET, Spirea, Barberry and Hydrangeas.—Amoor River North, 12 to 18 inch, $20 per 1,000; 18 to 24 inch, $25; cuttings, $1.50 per 1,000. Spirea Van Houtte, 18 to 24 inch., $3 per 100. Thunberg's Barberry, 8 to 12 inch bran., $2 per 100; 12 to 18 inch, $4; 18 to 24 inch, heavy, $6 per 100; 24 to 30 inch, $8.50. Amoor River Evergreen, 12 to 18 inch, $12.50 per 1,000; 18 to 24 inch, $16.50. Hydrangea P. G., $3.50 per 100. VALDESIAN NURSERIES, Bostic, N. C.

ONIONS, GIANT
R. & J. Farquhar & Co., Boston, Mass.
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ONION SEED
Schilder Bros., Chillicothe, Ohio.
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ONION SETS
Leonard Seed Co., Chicago, Ill.
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ORCHID FLOWERS
Jas. McManus, New York, N. Y.
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ORCHID PLANTS
Lager & Hurrell, Summit, N. J.
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Julius Roehrs Co., Rutherford, N. J.
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ORCHID PLANTS—Continued
Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
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Freeman Orchid Co., Fall River, Mass.
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PALMS, ETC.
A. Leuthy & Co., Roslindale, Mass.
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Bobbink & Atkins, Rutherford, N. J.
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Godfrey Aschmann, Philadelphia, Pa.
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Robert Craig Co., Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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Joseph Heacock, Wyncote, Pa.
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August Rolker & Sons, New York City.
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Otto Heinecken, New York City.
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PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., Chicago.
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King Construction Company, N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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PLANT AND BULB IMPORTS
August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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Otto Heinecken, New York.
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PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIA PULCHERRIMA
A. Schultheis, College Point, N. Y.
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POTASH
German Kali Works, Inc., New York City.

RAFFIA
McHutchison & Co., New York City.
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RAT AND MOUSE CATCHER
H. D. Swarts, Scranton, Pa.
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REFRIGERATORS FOR FLORISTS
United Refrigerator & Ice Machine Co., Kenosha, Wis.
United Ice Machines.
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P. Ouwerkerk, Hoboken, N. J.
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Bobbink & Atkins, Rutherford, N. J.
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Robert Craig Co., Philadelphia, Pa.
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W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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S. S. Pennock-Meehan Co., Philadelphia, Pa.
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Bobbink & Atkins, Rutherford, N. J.
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Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
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Wood Bros., Fishkill, N. Y.
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Robt. Scott & Son, Sharon Hill, Del. Co., Pa.
New Rose Killarney Brilliant.
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A. N. Pierson, Inc., Cromwell, Conn.
New Roses.
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August Rolker & Sons, New York City.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
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California Seed Growers' Association, San Jose, Cal.
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Braslan Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons, Boston, Mass.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
Asparagus Plumosus Nanus and Aster Seed.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Send for 1914 Catalogue.
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J. M. Thorburn & Co., New York City.
New Crop Flower Seed.
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Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
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Arthur T. Boddington, New York
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S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
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Loechner & Co., New York City.
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T. J. Grey Co., Boston, Mass.
Shamrock Seed.
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Albert Dickinson Co., Minneapolis-Chicago.
Lawn Grass.
The Right Seeds in the Right Place.
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S. D. Woodruff & Sons, New York.
Garden Seed.
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O. V. Zangen, Hoboken, N. J.
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Ant. C. Zvolanek, Lompoc, Cal.
Commercial Sweet Pea Seed.
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Lawn Grass Seed.
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Burnett Bros., New York City.
Seasonable Seeds.
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J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds for Florists.
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Stamford Seed & Nursery Co., Stamford, Conn.
New Crop Seeds.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Fottler, Fiske, Rawson Co., Boston, Mass.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SHAMROCKS

Peter Henderson & Co., New York City.
Irish Shamrocks.
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SILKALINE

John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."

SNAPDRAGONS

H. Huebner, Groton, Mass.
New Winter-Flowering.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPIREAS

J. M. Thorburn Co., New York City.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

SWEET PEAS

W. Atlee Burpee & Co., Philadelphia, Pa.
Spencer Type of Sweet Peas.
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VEGETABLE PLANTS
TOMATOES.

5000 Comet Forcing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
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Welch Bros. Co., 226 Devonshire St.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
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Chicago

Peter Reinberg, 37 Randolph St.
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Chicago Carnation Co., 30 E. Randolph St.
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Poehlmann Bros. Co., Morton Grove, Ill.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
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New York

H. E. Froment, 57 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 49 West 28th St., N. Y.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 41 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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B. S. Slinn, Jr., 55 and 57 West 26th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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WHOLESALE FLORISTS

Philadelphia—Continued

The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers in This Issue

ALPHANO HUMUS FERTILIZER.

A talk to those who are not awake to the merits of Alphano Humus.
Alphano Humus Co., New York City.
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CANES.

Wm. Elliott & Sons, New York City.
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CANNAS.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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FLOWER SEED SPECIALTIES FOR FLORISTS.

J. J. Wilson Seed Co., Newark, N. J.
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FLOWER SEEDS FOR FLORISTS.

J. M. Thorburn & Co., New York City.
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FOUR SWASTIKA COMBINATION CANNA OFFERS.

Conard & Jones Co., West Grove, Pa.
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GERANIUMS AND MISCELLANEOUS PLANTS.

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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PEIRCE PAPER FLOWER POT.

E. Allan Peirce, Waltham, Mass.
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RED DEVIL GLASS CUTTER.

Smith & Hemenway Co., New York City
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Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

CATALOGUES RECEIVED.

Fraser Nursery Co., Huntsville, Ala.—Surplus List No. 1, for Nurserymen and Dealers only.

Valdesian Nurseries, Bostic, N. C.—Wholesale Price List for Spring, 1914. Shade Trees, Shrubbery, etc.

Henry Youell, Syracuse, N. Y.—Descriptive Price List, Helpful Hints and Early History of the Gladiolus.

Hosea Waterer, Philadelphia, Pa.—"The Lawn Beautiful." An instructive pamphlet with price list of lawn mixtures.

Bobbink & Atkins, Rutherford, N. J.—Heart Cypress Tubs, Rustic Work and English Garden Furniture. Illustrated.

William Tricker, Arlington, N. J.—Catalogue of Water Lilies, Roses, Garden Perennials. A choice selection. Illustrated.

Currie Bros. Co., Milwaukee, Wis.—Farm and Garden Annual. Fully illustrated. A plate of brilliant sweet peas adorns the cover page.

Ross Brothers, Wichita, Kansas—Seed Book for 1914. Farm and Garden Seeds, Flower Seeds, Implements, etc., A neat attractive catalogue with handsome cover.

Vaughan's Seed Store, Chicago, New York—General Seed Catalogue. Covers in colors, gladioli forming the subject of back page. A compact book of 160 pages.

J. L. Moore, Northboro, Mass.—Catalogue and Price List for 1914 of the Northboro Dahlia and Gladiolus Gardens. Cover plate in natural colors. A good select list.

W. E. Dalwig, Milwaukee, Wis.—General Illustrated Catalogue of Seeds, Plants and Implements. Covers cream tinted with simple inscription in embossed gold and brown.

Thornton Bros., Lawrence, Mass.—Illustrated General Catalogue of "Sure Crop" seeds. A very creditable publication by this old established firm of seedsmen and florists.

W. W. Wilmore, Denver, Colo.—"Dahlias—1914." A very attractive illustrated catalogue. Gladioli and some hardy herbaceous specialties are included. Also Trade List of Dahlias, etc., for 1914.

David Herbert & Son.—Atco, N. J.—Descriptive Catalogue of New Dahlias, Cannas, Gladioli and other Summer Flowering Bulbs, for 1914. Finely illustrated. Three full page dahlia portraits in natural colors.

J. Chas. McCullough Seed Co., Cincinnati, O.—1914 Seed Catalogue. Cover pages shows exterior and interior views of the "Modern Seed Store." Contents comprehensive and especially strong on vegetable seeds.

Conard & Jones Co., West Grove, Pa.—New Floral Guide for 1914. Richly illustrated with portraits of choice roses, cannas, etc.; several full page pictures in natural coloring. A catalogue that will make customers.

Fottler, Fiske, Rawson Co., Boston, Mass.—Seed Annual. A characteristically comprehensive catalogue, 186 pages, well filled with text matter and profuse illustrations. Covers in quiet tints with gold embossed inscription.

C. Keur & Sons, Hillegom, near Haarlem, Holland. Wholesale Catalogue of Bulbs and Plants. American Edition, 1914 and 1915. Accompanying this very complete list is a fine life size colored plate of Gladiolus Glory of Holland.

H. A. Dreer, Philadelphia, Pa.—Special Dahlia Catalogue. A beautiful publication superbly illustrated, and listing the choicest of the novelties in all classes. Also special catalogue of Old-fashioned Hardy Plants. On same order and general style as the foregoing. High-class illustrations throughout.



Cleans a building of Rats and Mice in short time, keeps it cleaned, for it is always ready for use. Made of galvanized iron, can't get out of order, lasts for years. Large number can be caught daily. Go to Catcher mornings, remove device inside, which only takes few seconds, take out dead rats and mice, replace device, it is ready for another catch. Small piece cheese is used, doing away with poisons. Catcher is 18 inches high, 10 inches diameter. When rats pass device they die, no marks left on them. Catcher is always clean. One of these Catchers set in a livery stable in Scranton, Pa., caught over 100 rats in a month. One sent prepaid to any place in United States upon receipt of $3. Catcher, 8 in. high, for mice only, prepaid $1. On account of shipping charges being prepaid, remittance is requested with order.

H. D. SWARTS,
Inventor and Manufacturer, Scranton, Pa.

More Red Devil Cutters Used Annually Than All Others Combined



"It's all in the wheel"

Send 6c. for sample No. 024 and Booklet 40 styles, and understand why.

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1,085,218. Seed Dropping Attachment for Hoe-Handles. Floyd A. Meadows, Pearisburg, Va.

1,085,223. Water-Measuring Device for Planter-Setting Machines. Julius Riemenschneider, Milwaukee, Wis.

1,085,349. Cutter-Bar for Mowing-Machines. Charles H. Likely, Woody, Cal.

1,085,359. Harrow Weeder-Tooth. Clinton E. Roosevelt, Pendleton, Ore.

1,085,438. Planter and Cultivator. Grover C. Knight, Grove, Okla.

Brockton, Mass.—Geo. E. Holmes has been re-elected superintendent of Melrose Cemetery by the Burial-Ground Committee of the City Council. He was opposed by Martin Packard, who was defeated by Mr. Holmes last year after he held the position 27 years.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boston.

HELP WANTED

WANTED—Two first-class rose growers to take charge of sections in a large up-to-date establishment, near Boston. Extra pay for all overtime and Sunday work. Please state age and experience, whether married or single. Address "E.," care HORTICULTURE.

SITUATIONS WANTED

Head Gardener

Thoroughly capable man for every department of gentleman's place, desires engagement. Well up in greenhouse and outside work. Specialty: fruit under glass, carnations, roses and 'mums; or as manager of commercial place where results count. Scotch; age 40; married, no family. Address, COMPETENT, care of HORTICULTURE.

SUPERINTENDENT, Head Gardener, Park, Estate or Farm. Experience landscape gardening and private estate, forestry, besides usual practical gardening under glass and outside. Strictly temperate. Can produce results. Began as boy on farm. Send for reference and experience. M., care HORTICULTURE.

SITUATION WANTED by gardener, 29, single; life experience, all branches; strictly honest and steady, not afraid of work. A-1 references. Private place wanted. CRAGG, 152 East 7th St., Erie, Penna.

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FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

MISCELLANEOUS

BUSINESS OPPORTUNITY.

A correspondent near Philadelphia, whose good standing is well known to us, writes: "I have about thirty acres of very fine land, suitable for nursery business, and am anxious to get hold of a good, live, young fellow, one who is up in this line of work and a hustler, to go into the nursery stock with me. I do not think there will be any trouble in giving him a nice line of trade, but would not consider anyone unless he had some capital and thoroughly understood how to run it.

"Have frequent inquiries for the laying out and fixing of grounds, furnishing material, etc., for the work. This could be bandled as a nice profitable investment for the right man."

Address in confidence: GEORGE E. MEYER, care George C. Watson, Dobson Bldg., 9th and Market Sts., Philadelphia, Pa.

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | **Experimental Greenhouses, Catonsville, Md.** | **Experimental Farm, Farmingdale, N. J.**

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

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Directions on every package

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Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

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Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL., $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:—
"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:—
"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—
"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass, writes:—
"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart $3.00 Per Gallon
(Special prices on large quantities).
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Manufacturers of Agricultural Chemicals
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Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

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Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.
CLARKSVILLE, TENN.

FERTILIZERS

Tankage, $2.00; Sheep, $1.75; Bone, $2.00; Ashes, $1.50; Phosphate, $2.00; Limestone, $1.00; Blood, $4.00; Nitrate Soda, $4.00; Sulphate Potash, $3.50 per 100 lbs. Smallest quantity sold 200 lbs. Cash with order.

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Cocoanut Fibre Soil

Trees mulched with this article will grow larger fruit, better color, and ripen more uniformly than by any other means. We have proved it.

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Because our STEEL-FRAME Greenhouses have inculcated in their construction the results of knowledge of up-to-date building methods and the experience of practical growers. While the materials in them are the best of their respective kinds an estimate from us on your new house proves they cost no more than others.

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GENERAL SALES OFFICE.

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POT MAKERS FOR 140 YEARS — **WORLDS LARGEST MANUFACTURERS**

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Grinnell, Ia.—Wm. Bader, one house.

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DeKalb, Ill.—J. Leonard Johnson, additions.

Camden, Me.—Geo. H. Glaentzel, one house.

New Haven, Ct.—Charles Munro, rebuilding.

Fremont, Neb.—C. H. Green, addition 30x80.

Washington, D. C.—Gude Bros. Co., rebuilding.

Norwood, Pa.—Duncan Macaw, house 30x150.

Cudahy, Wis.—Patrick Cudahy, four houses, 57x320.

Crescent, Mo. John T. Milliken, range of houses.

Herrin, Ill.—W. M. Ridgway, two vegetable houses.

Roelofs, Pa.—Joseph Heacock Co., rose house 55x225.

Greentown, O.—G. L. Nidy, two houses each 18x70

Louisville, Ky.—A Rasmussen, 6 houses, each 31x300.

Danielson, Conn.—Fred Barney and Henry Myers, one house.

Clinton, Ill.—S. Grimsley, South Monroe street, house 20x58.

Hartford, Ct.—Fred Beeney and Henry Myers, Prentice Farm, one house.

Philadelphia, Pa.—Karl Muller, 63rd street and Kingsessing avenue, one house.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms Sold only with Evans Challenge Machine

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are practical, first, last and all the time. Every detail is the result of careful study.

Sunshine makes things grow and a King simply captures every ray of sunlight.

Write us for information no matter how inexpensive or extensive a house you need.

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Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c
2 Reels, 1000 ft., " 14 c
½-inch, " 13 c.
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Couplings furnished
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PEIRCE PAPER FLOWER POT

A water proof paper pot.

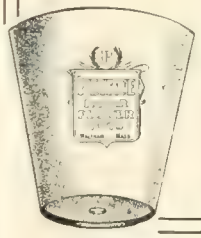
Does not fold up or come apart.

Plants in transit retain moisture within the plant ball instead of its being absorbed by the packing, insuring them traveling long distances in perfect condition.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

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401 Oaks Road
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1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

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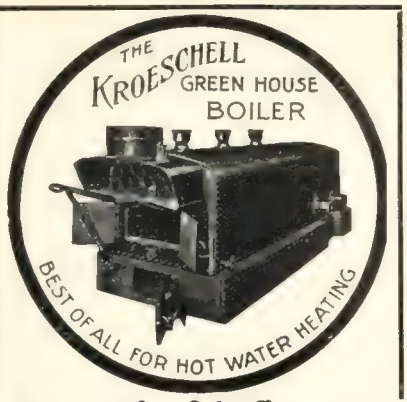
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OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

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28th & M Sts. Washington, D. C.



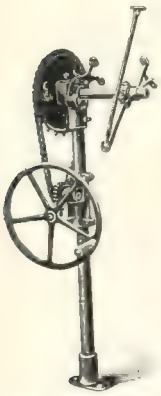
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CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



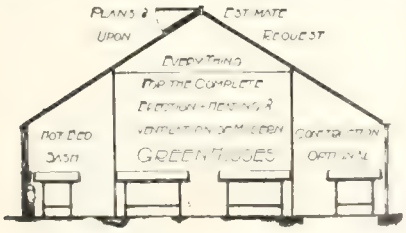
You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

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Richmond, - Ind.

S. JACOBS & SONS



1359-1385 Flushing Ave.
BROOKLYN, - - - N. Y.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

Our President's First Ad.



AS President of this company, I prefer to keep in the background, but our ad man has been doing too much talking that's over people's heads; and too little about the things we have to sell.

We have had several talks together and finally he suggested my trying a hand at it. So that's exactly what I am going to do.

First, there's the question of getting started right — half the troubles are because trouble enough isn't taken about that.

If we are willing to spend our good money coming to talk over with you the various problems of your proposition and explain to you just how we can meet your wants, it does seem to me that you are turning down a good thing when you don't write us whenever the building bee is buzzing in your head.

Heating, for instance — think of the costly "fix-overs" and trouble that a little trouble, in starting right, would have saved.

If you have a regular twister of a problem, I'll take a hand in it myself. "We go anywhere for business."



Iron Frame House erected for Henry Weston, Hempstead, L. I.

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SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

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Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

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GLASS

for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

IT'S THE REPEAT ORDERS THAT COUNT

ALONG last summer we wrote to our Chicago office, asking if there was anything of particular interest about the orders they had recently been booking.

The reply was so to the point that we will now hand it on to you:

"The most interesting order we have received this month is for three houses for Walter B. Davis Company, at Aurora, Ill.

"They will be 64 feet wide and 325 feet long, The eave line is 10 feet high and the rafters spaced about 11 feet to centers. They will be duplicates of the iron frame house we erected for Mr. Davis last year.



On the three houses 7,500 lbs. or 3¾ tons of putty were used on the 18 miles of bars—36 miles of glass held in place by 300,000 glazing brads—239 gallons of white paint or pretty close to a ton—90,600 screws, which, if placed end to end, would reach considerably over a mile.

"A repeat order like this, we believe, says more all by itself than any amount of anvil pounding we can do regarding the merits of our greenhouses."

These Davis houses were completed some time ago. Mr. Davis's opinion is given in that four page ad. in the *Exchange and Review* of January 31st, 1914.

Lord and Burnham Company

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42nd Street Bldg.	Tremont Bldg.	Franklin Bank Bldg.	Rookery Bldg.	Granite Bldg.	12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

GRAND SPRING EXHIBITION

Under the Auspices of the Horticultural Society of New York and the New York Florists' Club

$12,500 in Premiums

NEW YORK
March 21st to 28, 1914

Are you preparing to exhibit? Have you received the preliminary schedule covering plants? If not, write for a copy without delay. Cut Flower schedules ready January first.

JOHN YOUNG

Secretary, 53 West 28th Street, NEW YORK

Telephone, 7362 Madison Square

HORTICULTURE

Vol. XIX FEBRUARY 21, 1914 No. 8



CATTLEYA PERCIVALIANA

At Mrs. B. B. Tuttle's Conservatory, gardener M. J. Pope, Naugatuck, Conn.

Devoted to the FLORIST, PLANTSMAN, LANDSCAPE GARDENER and Kindred Interests

Published EVERY SATURDAY At 11 Hamilton Place, BOSTON, MASS. Subscription, $1.00

MATCHLESS WINNER OF TWO GOLD MEDALS

Do Not Fail to get in your order early for **Matchless,** the **New Commercial White Carnation.** Superior in size, fragrance and keeping qualities. A non-bursting, very prolific and continuous bloomer.

This Carnation won the Dorner Memorial Medal at Cleveland, Jauuary 28, 1914

Orders Booked Now For February Delivery. (All stock sold to February 1)

Price for Rooted Cuttings, $12.00 per 100; $100.00 per 1000

ORIGINATORS

COTTAGE GARDENS CO., Inc. QUEENS NEW YORK

CHRYSANTHEMUMS Our Novelties for 1914 are ready for immediate delivery on such varieties as Meudon, Jas. Fraser, Mrs. R. H. Boggs, Mrs. Paul Moore, Daily Mail and Mrs. Ernest Wild at $2.00 plant; $20.00 per dozen. Chieftain, $5.00 per dozen.

We had over twenty acres of 'Mums growing outdoors last year in order to guarantee our stock being propagated only from plants that had not been fed or forced in any way.

Send for our catalogue of over four hundred and fifty varieties, including the Gold Medal Singles; the Caprice Family, which we introduced last year; the Early Flowering varieties which are becoming the rage and all other Standard varieties.

CHARLES H. TOTTY, Madison, N. J.

You Cannot Possibly Go Wrong

by investing in the

PHILADELPHIA

Pink Carnation

Its vigorous growth and productiveness are simply ideal.

Order Now

$12 per 100 $100 per 1000

2500 at $95 5000 at $90

S. S. SKIDELSKY & CO.

1218 Betz Building

Philadelphia, Pa.

Princess Dagmar

Without Doubt

The Best Crimson Carnation in Existence

Oraers booked now for February delivery

Rooted Cuttings: $12.00 per 100, $100.00 per 1000

PATTEN & CO., TEWKSBURY, MASS.

New Variegated Carnation

MRS. B. P. CHENEY

Strong Rooted Cuttings for February Delivery

$12.00 per 100, $100.00 per 1000. **JOHN BARR, So. Natick, Mass.**

Godfrey Aschmann

1012 West Ontario St., Philadelphia, Pa.

The only Reliable Importer, Grower and Wholesale Shipper for 25 years of Azalea Indica in all marketable colors and sizes, pink, white, variegated. 10 best varieties, 5½, 6, 7, 8-inch pots, 60c., 75c., $1.00, $1.25, $1.50 to $2.00.. Cash with order.

Send for list of

Choice Gladioli

JOHN LEWIS CHILDS

Flowerfield, L. I., N. Y.

CHRYSANTHEMUMS

All the Best Commercial Kinds

Including Pompons, Anemones, Single and Early-flowering. Kindly let us quote your requirements.

ELMER D. SMITH & CO.

ADRIAN, MICH.

CARNATIONS

F. DORNER & SONS CO.

LA FAYETTE, IND.

New Red Carnation Prince Edward

Early free bloomer, long stem, non-splitter; a most profitable variety. Rooted Cuttings, $5.00 per 100.

A. BEGEROW

15th St. & Clinton Ave., NEWARK, N. J.

GERANIUMS

This catalog is now being mailed to the trade.

We have one million in 2 in. and 3 in pots ready for immediate shipment in the finest collection that has ever been offered to the American florist in Novelties, Ivy-leaved, Variegated, Scented, and over 100 Standard varieties representing the highest development of Geraniums yet attained. We furnish good sorts at $2.00 per 100, $18.50 per 1000. Our new illustrated Geranium Catalog marks a new epoch in catalog making—is a maximum of the printers' art. If you don't get yours let us know.

MISCELLANEOUS PLANTS

A general assortment of bedding plants ready for immediate shipment. Special price on large lots.

	Per 100 2-in.	Per 100 3-in.
ACALYPHA—Macafeana	$2.50	$3.50
ACHYRANTHES—Emersoni, Besteri Mosaica	2.00	3.00
AGERATUM—Dwarf White, Inimitable, Little Gem, Princess Pauline, etc	2.00	3.00
ALTERNANTHERA—Aurea Nana, Jewell Seyboldi, Brilliantissimus	2.00	
ALYSSUM—Giant, Dwarf, Double	2.00	3.00
ASPARAGUS—Plumosus and Sprengeri, Extra strong		5.00
BEGONIA—Vernon, Pink and White	2.00	3.00
Luminosa, Pfitzer Triumphant	3.00	4.00
Gloire de Chatelaine	4.00	6.00
COLEUS—Beckwith Gem, Duneraria, Hero, Golden Bedder, Verschaffelti	2.00	
HARDY POMPON—Chrysanthemums in a large assortment, including all types	2.00	
FUCHSIA—Gerbert, Lieut Mauritz, Marinka, Minnesota, Goettingham, etc	$2.00	$3.00
HARDY ENGLISH IVY—Extra strong stock	2.00	3.00
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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Azaleas

Do not be in too much of a hurry in giving azaleas a high temperature for the present at least. Azaleas can be easily timed as they take from five to seven weeks in a temperature of about 55 degrees at night. If those wanted for Easter are in a moderately cool house they will not require much forcing. They are much better when grown in this way and the flowers possess more substance. Give ventilation on all good days; see that none are allowed to become dry at the roots; give plenty of room between the plants and give a good syringing on bright days. The azaleas should show color about three weeks before Easter so they can be hardened off in a lower temperature. Do not let any of them break into leaf growth which would only be at the cost of producing good flowers. Carefully pinch out any leaf growth that may be showing around the swelling of the flower buds.

Dracaenas

While we have plenty of heat in the pipes is a good time to increase our stock of fine foliaged dracaenas. Leggy plants can be increased by "mossing"—cutting the stem about half through, just below the leaves and placing something between to keep the cut open. A small handful of wet moss placed around the cut, and secured by a few twists of raffia, answers the purpose. The moss is kept constantly wet and when white roots are seen pushing through, the stem is severed beneath, and the moss and roots are buried to the lowest leaf in a well-drained pot of soil. Having disposed of the top, let us turn our attention to the old stem. With a sharp knife we will now cut up the stem into portions one inch long, and if we want as many plants as possible we will split each section down the middle. Every section, split or unsplit, forms a new plant. Place these in a compost of equal parts of loam, leaf-mold and coarse sand, and then sprinkle a layer of sand over all. Place in a propagating case and in a very short time, provided plenty of heat and water are given, they show roots and growth. When this stage is reached potting singly in 2½ inch pots should follow, with careful watering, plenty of warmth and syringing.

Euphorbia fulgens

This makes a very beautiful plant, when well grown. Plants that have flowered during the winter will carry plenty of wood to propagate from. By heading back some of these plants now and giving them a temperature of 65 degrees at night they will soon break into young growth that will make fine cuttings. If these cuttings are taken off with a heel and placed where they can have bottom heat about 75 degrees they will root without much trouble. During this stage they will want careful watering and shading. When they have made roots of about half an inch they should be potted up in a compost of two parts fibrous loam, one part leaf mold, one part well decayed cow manure and a little sand. Keep shaded until they have taken root. They will want a warm and rather moist house that never goes lower than 60 degrees at night, but 65 degrees would be better as they are heat loving subjects. Give careful ventilation at all times.

Orchids

During the last of February and through March the resting of orchids comes to an end. With the strong sun and increased length of day they will start into growth. So just before they make too much growth is the best time for repotting or top-dressing most orchids. The best material is either fibrous peat or fern fiber and sphagnum moss, with charcoal and crocks for good drainage. After being potted they should be frequently syringed and have abundance of moisture about the house; in fact, the benches and floors should never be dry. With new growth and root action will necessitate lots of attention from this out in the way of watering, but it must be borne in mind that over-watering is very injurious to all orchids. Now that we have stronger sun, the one thing to be remembered is to ventilate on all possible occasions, but not so as to cause any cold draughts. Make it a rule that when the proper temperature has been reached ventilation will be in line.

Tuberous Begonias

When these begonias are given half a chance they are truly superb both in flower and foliage. If started now and grown on you can have fine flowering plants by Decoration Day. Flats that are well crocked and filled with a mixture of leaf mold and sand in equal parts is the best way to start the tubers. Place about an inch of the compost on sphagnum and crocks and on this place the tubers fairly close together, just allowing about half an inch of room between them. They will want some bottom heat, so give them a place where they can have at least 70 degrees and 75 would be better. Give just enough water to keep the compost moist. In four or five weeks the young leaves should be showing. At this stage they will do better in a house that stands from 55 to 58 degrees at night. When they have made growth to the extent of crowding they should be potted up in 4 or 5-inch pots, using a rich compost.

Starting Lemon Verbenas

Old plants of lemon verbenas that have been resting should now be brought into more heat. Give them a place where they can have a temperature of about 50 degrees night temperature. When thus treated they will soon produce any number of fine cuttings. Place in a moderately warm propagating bed, keep watered and shaded and they will soon root. Potted into 2½ inch, in rich compost they soon grow into fine stock.

Mr. Farrell's next notes will be on the following: Bedding Geraniums; Begonias [illegible] and Cincinnati; [illegible] the Valley for Easter; Propagating Violets; Shading [illegible] and Ferns.

Statice

The name Statice will bring back into the memory of those of my readers whose European training took place from 20 to 25 years ago, drying rows of bundles of tiny blue and lavender blossoms, used for the customary funeral design work of immortelles in vogue at that time. Fashions and material have changed and most of us have nearly forgotten the "Sea Lavender" with its tufts of long, smooth, leathery foliage and its graceful panicles. Confronted anew with this old-time garden perennial, we realize the thoughtlessness of discarding plant species as soon as they give less promise for wholesale cash returns. Certainly, there seems to be little call for dried statice at present, but when I beheld the handsome specimen of Statice latifolia in the rockery of Henry A. Dreer at Riverton, depicted in our illustration, the conviction dawned upon me that it is time to give the sea lavenders our renewed attention. The number of midsummer-flowering rock garden inmates is not overabundant. Statice intelligently employed can be easily made one of the most effective July and August features, particularly as all are known to do very well in an open sunny exposure and rarely suffer seriously by occasional drought.



STATICE LATIFOLIA.

All the varieties in cultivation are natives of eastern Europe and Asia. Statice eximia produces panicles of decidedly handsome pale lilac blossoms. Statice Gmelini is distinguished by violet blue flowers of marked ornamentality. The stateliest species of the sea lavenders, the well known Statice latifolia, also adapted for the herbaceous border, shows freely branching heads in deep blue; while Statice tartarica, syn. S. incana, as the lowest growing garden variety, adorns itself with purplish pink panicles. All sea lavenders require a well-manured and deeply dug sandy loam and may be raised from seed or propagated by root cuttings and division. Their value for cutting is self-evident.

Richard Rothe

Riverton, N. J.

Cattleya Percivalliana

(See Cover Illustration)

This is a very good species of the ever-popular cattleya and no collection would be complete without at least a few specimens of it. While the flowers are not as large as those of the other cattleyas of the labiata group, they are of better color than most of the larger flowering species. The sepals and petals are usually deep rose; the front lobe of the lip is a lovely shade of deep crimson, paler toward the margin and becoming a rich carmine at the entrance to the throat which latter is deep orange penciled with crimson toward the base. The flowers on the plant illustrated measure 4 inches across (not stretched out); the petals are 2¾ in. long and 1¾ in. wide; which is not a very small flower at that. Cattleya Percivalliana will succeed under the same treatment given to other cattleyas of the labiata section. For my part I prefer to grow them in baskets or pans, suspended from the roof of the cattleya house where they can get all the available light and where the temperature is usually a few degrees higher than it is on the bench or stage. As a compost I use a good grade of osmunda fibre, using the same very sparingly in order to keep it from getting sour. After the bulbs are made up in the fall very little water will be needed until new growth starts again.

For the commercial florist this cattleya is especially useful as it flowers at a time when other cattleyas are scarce. As a rule it is at its best during the latter part of November and December, thus filling in the gap between C. labiata and C. Trianæ.

M. J. Kope

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Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Grading Cut Roses

There is very little in poor grading of roses, for any grade that does not come up to its standard will soon be detected by buyers, and the price will rule accordingly. What is more, as soon as any grower gets a reputation for poor grading, his stuff will not sell as well, even when it does arrive well graded and otherwise in good condition. Weak stems may prevail here and there, and it is poor policy to stretch these stems to their full length and then put them in to the highest grade. All weak stems, poor buds, and in fact all cut roses having some defect should be put into the short or inferior classes. Avoid putting any overblown roses among the good grades, also see that the buds are cut at the proper stage, not too tight as they sometimes are this cold weather.

The Coal Bin

The weather that we have had the last week or more ought to teach a lesson for anyone who will allow his coal bin to become empty before even attempting to refill it. When a blizzard comes along, and it is impossible to secure coal on short notice, then the trouble comes in. We cannot expect everyone to get out and hustle in all kinds of weather, when a little thoughtfulness on our part might have avoided it all. Keep the cellar full, and if it is small, have the coal heaped up outside somewhere, where it will be real handy. Coal will decrease in value if exposed to the weather for more than a year, but it is better to be on the safe side and have a car or two in reserve in case of emergency.

Snow

Light is something that all plants must have, and roses are among those that cannot have too much of it. Therefore after a snowstorm it is well to see that any snow that may stick to the glass sides of the houses here and there is removed as soon as the storm stops and clear weather sets in once more. This is not always possible, and does not have to be done, but every ray of light will help, as we all know, so let us try to give the plants all the light we can. The new modern houses with the galvanized eave plates will usually clear all snow and ice as soon as the first rays of the sun hits them. Where the snow is piled up to the eaves on the outside, remove it if necessary, and the eave will then be able to drop its load. Where the houses are joined together with a gutter between them, see that the heating pipe directly under this is kept hot while the snow is falling. The heat thus rising will usually melt the snow as fast as it accumulates and there will be little trouble in keeping the gutters clean. Right here is where precaution will avoid a good deal of trouble. See that all openings in the gutter leading to the sewer are screened by wire so as to keep all leaves and such out of the drains. A good time to do this is in the summer, when the houses are being painted, or other work on them being done.

Potting Soil

Growers that made provision for their potting soil will have it real handy and any one who has to dig with picks to loosen a few frozen lumps of sod, will no doubt have some heaps covered the coming year. At any rate have plenty of soil brought in so that it will dry out sufficiently to mix freely with whatever you may wish to add to it. Poorly mixed soil goes a good ways to make the plants grow unevenly, and there is enough to contend with even when all goes right, without having the plants misbehave in this way. Have all the soil well screened, too, as it is very important to have it as fine as possible and absolutely free from stones, pebbles, glass and other useless junk often found in soil where the sod is taken off old fields.

HOLLAND AT THE PANAMA-PACIFIC EXPOSITION.

It is promised that the floral display at San Francisco by Holland will be the most extensive, varied and beautiful of any ever made by a foreign country at any exposition. While the bringing of an acre or two of bulbs and blooming plants to California may seem like "carrying coal to Newcastle," since the Golden State is the land of flowers, it must be remembered that the low, moist lands of Holland are the principal source of most of the spring flowering bulbs for the whole world; and the fact demonstrated within the past few years in the redwood sections of California that this state has every qualification for competing with the Dutch bulb product, will make this foreign exhibit one of exceptional interest.

That the landscape gardening effects attained by the Holland floral exhibits will be things of artistic beauty, unique in design, is certain. The laying out of these gardens, so that there will be a rotation of plants and a constant blooming period throughout the ten months of the exposition as well as the arrangement of the special display in the Horticultural Palace, is in the hands of a Dutch landscape expert, A. Van Vliet. He is the artist who planned the wonderland of gardens surrounding the Peace Palace at the Hague. Accompanying the Netherlands commissioners are two other noted color artists, Herman Rosser and Mrs. Rosser. The latter, known to the world of art as Suz Laut, was one of the landscape architects of the Hague Peace Palace.

NOTES FROM BRITAIN.

As one of the principal objects of the Anglo-American Exposition, which will be held in London during the coming summer, is to celebrate the one hundred years of peace between Great Britain and the United States and to further insure the continuance of that peace by affording means for the people to become better acquainted, and to increase the commerce between the people of the two countries, a Commercial Club, composed of American and British manufacturers will be organized in connection with the Exposition. The meeting place of this club will be a headquarters for trade information and the interchange of ideas relating to commercial matters.

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The wrecked greenhouses

In our editorial notes of last week we made comment upon the great advantages enjoyed by flower growers equipped with modern type greenhouses. As compared with the little structures of former days with their clumsy woodwork and often primitive heating apparatus these great steel-ribbed glass palaces, "a little lighter that out-of-doors," have brought to rose and carnation growing a perfection of system and exactness of detail which has practically revolutionized these cultures. But the happenings of the past week, the storm disasters which have befallen at least two of the most extensive modern greenhouse structures in this country—furnish a lesson and a warning. To so plan and adjust these vast expanses of glass for successful resistance against wind and snowfall will demand the exercise of scientific knowledge and mechanical skill of the highest order. Whatever of structural defects or weakness these regrettable misfortunes may have exposed will undoubtedly be guarded against as far as possible in future construction and thus one lesson of the winter of 1913-14 will not have been profitless.

Legislation worth watching

Two very important bills are before the Committee on Agriculture at the State House, Boston, this week. One of these, House Bill No. 1741, is a petition by E. Allan Peirce and others relating to the assessment on private lands of the costs of destroying the eggs, caterpillars, pupae and nests of moths. The amendment asked for would make the assessment, to the tax-payer, on the land value alone instead of the present which is one-half of one per cent on the valuation of the land including all buildings. Concerning this bill and its objects Mr. Peirce says:

"This has been a very unjust tax in the past; for instance, on a lot of land that I own, the assessed valuation of which was $500 in 1912, the city tax was $8.50 and the gypsy moth tax $29. On another piece of property, valued at $8,600, the city tax was $136.74, and the same year the gypsy moth tax was $149.60. This more than doubles our tax on the land valuation because we are owners of greenhouses and other buildings on adjoining land."

HORTICULTURE recognizes the justice of this proposed legislation and would like to see the bill enacted. The other bill in question should be opposed vigorously and defeated. It is House Bill No. 1255. It provides for the extension of the scope of those in charge of the suppression of the gypsy moth to the suppression of the tent-caterpillar, elm-beetle, leopard moth and *other insect pests*. If this bill should become a law there is no end to the amount that could be taxed a land-owner there being no restriction as to how far a city forester or superintendent in charge, might go.

Saving the wild flowers

Every lover of the wild flowers should feel grateful to the Society for the Protection of Native Plants and other organizations with a kindred purpose for their work and influence on behalf of our native flora. The Society for the Protection of Native Plants, which is located in Boston, works in co-operation with and has the endorsement of the New England Botanical Club, Wild Flower Preservation Society of America, Seal Harbor Improvement Society and sister organizations in various parts of the United States. Leaflets are issued from time to time, many of them for the particular use of children and intended to foster a sentiment of conservation rather than destruction and to educate all, old and young, as to the imminent danger of extermination of many interesting and beautiful wild flowers through thoughtless and indiscriminate picking. Warning is given as well about the alarming extent to which the cutting of laurel and other native material is being carried on for commercial use and in this HORTICULTURE is also in accord. Those of our readers who wish to lend their aid to this work can co-operate by addressing the secretary Miss M. E. Carter, Boston Society of Natural History. The Wild Flower Preservation Society is located in New York, with charters in Philadelphia and Chicago. This Society is also doing some good missionary work. Correspondence should be addressed to Mrs. N. L. Britton, New York Botanical Garden.

FLOWER EXHIBIT AT CORNELL UNIVERSITY.

The flower show at the College of Agriculture which was held in connection with Farmers' Week was unusually successful. The hall was attractively decorated with southern smilax and artificial pink roses by one of the short-course classes.

A large number of potted plants and cut flowers were contributed by various commercial growers and this made a very valuable feature of the week. The hearty co-operation of the commercial people is very gratifying to the department of floriculture, for Ithaca is considerably outside the area of the flower-producing section of the state and it is difficult to acquaint the students with the newer varieties of cut flowers and with the materials used by retailers. The exhibit made by the Pennock-Meehan Co. was of special educational value. Following is a list of the exhibitors and the materials shown.

United States Cut Flower Co., Elmira, N. Y.—Carnations: Gloriosa, Enchantress, Pink Delight, White Enchantress, Benora, White Wonder, Beacon, Eureka and Rose Pink Enchantress.

W. J. Palmer & Son, Buffalo, N. Y.—Carnation White Wonder; roses: Sweetheart and Fireflame; freesias.

Cottage Gardens, Queens, N. Y.—Carnation Matchless.

Anton Schultheis, College Point, N. Y.—Potted plants of Tulips, Narcissi, Hyacinths, Malus, Tausendschoen Roses, Azaleas, Lilacs, Camellias, Ericas and Chorizemas.

William H. Siebrecht, Astoria, N. Y.—Collection of Tulips and Narcissi.

E. G. Hill Co., Richmond, Ind.—Carnations: Beacon, Gloriosa, Mrs. C. W. Ward, Yellow Prince, Commodore, Benora, Pocahontas and White Wonder.

Pittsburg Cut Flower Co., Pittsburg, Pa.—Carnations: White Enchantress and Mrs. C. W. Ward; roses: Pink Killarney, Richmond and My Maryland; Cattleya Trianae; Narcissi and Tulips.

S. S. Skidelsky & Co., Philadelphia, Pa.—Carnation Philadelphia.

E. C. Ludwig, Pittsburg, Pa.—Collection of Tulips and Narcissi.

S. S. Pennock-Meehan Co., Philadelphia, Pa.—Large collection of florists' ribbons, pins and other retail supplies; cut flowers of Narcissi, Sweet Peas, Tulips, Freesias and Mignonette.

Montgomery Co., Hadley, Mass.—Rose Hadley.

Peter Fisher, Ellis, Mass.—Carnation Georgeous.

Patten & Co., Tewksbury, Mass.—Carnation Princess Dagmar.

A. Roper, Tewksbury, Mass.—Carnation Alice Coombs.

Butler & Ullmann, Northampton, Mass.—Carnation Gloria.

J. H. Leach & Son, North Easton, Mass.—Carnation Pink Supreme.

S. J. Goddard, Framingham, Mass.—Carnations: Rosette, Benora, Pink Delight, Beacon, White Perfection and Yellow Prince.

C. S. Strout, Biddeford, Maine—Carnations: White Wonder and Pink Delight.

MASSACHUSETTS AGRICULTURAL COLLEGE.

A very interesting and instructive program has been arranged for Floricultural Day, March 18th, by the Floricultural Department of the College. The men on the program are all specialists and men of prominence. Florists and gardeners from all parts of the state have expressed a willingness to attend these lectures. Following is the program:

Morning Session.

9.10. Opportunities in Floriculture. Prof. Arno H. Nehrling, Department of Floriculture, Massachusetts Agricultural College.

10.10. Professional Horticulture. Harry A. Bunyard, Secretary of the American Sweet Pea Society, New York City.

11.10. Raising Plants from Seeds. Especially trees and shrubs, and in particular ericaceous and coniferous plants. T. D. Hatfield, Hunnewell Estate, Wellesley, Mass.

Afternoon Session.

1.30. Commercial Rose Culture. W. H. Elliott, rose-grower, Brighton, Mass.

Some Phases of Out-door Rose Culture. Eber Holmes, Author of "Commercial Rose Culture," Montrose, Mass.

2.30. Methods Used in Improving Plants. Edward J. Canning, until recently, curator of the Botanic Gardens, Smith College, Northampton, Mass.

3.30. Glass Houses in the Middle West. Illustrated. Prof. Arno H. Nehrling, Department of Floriculture, Massachusetts Agricultural College.

VIEWS IN WASHINGTON GREENHOUSES.



A House of Carnations.

The two greenhouses here depicted, one devoted to carnations and the other to gardenias are a part of the range of Gude Bros., Anacostia, D. C. We might take up space to tell how healthy and promising they look, but the pictures speak for themselves "The dollars are sticking out all over them."



A House of Gardenias.

CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF NURSERYMEN.

The thirty-ninth annual convention of the American Association of Nurserymen will this year be held at Cleveland, Ohio, June 24-26. A communication from the secretary says that it is as yet somewhat early to furnish much that is definite in regard to the arrangements for what is hoped will prove to be one of the largest and most interesting gatherings of the Association. The central location of the convention city will make it comparatively easy for the majority of the membership to attend. The time of meeting will also operate favorably to that end.

Reports from the committees responsible for the general arrangements, such as hotel, program, exhibits and local entertainment indicate that good progress is being made. From the favorable comments heard regarding the selection of The Hollenden as convention headquarters it is evident that no mistake has been made.

From Mr. W. B. Cole, of the entertainment committee, we learn that Mayor Baker, of Cleveland, has consented to extend the welcome to the Association. Mr. Baker, as is known, is a national character, and anything he has to say will interest the nurserymen. At the meeting of the Ohio Nurserymen, January 21st, the following tentative program of entertainment was adopted: One evening moonlight ride on the lake; one evening a banquet and other entertainment; and there will also be a theatre or matinee party for the ladies. The city forester and the city department will arrange for a trip through the public parks and boulevards.

President Pilkington, as chairman of committee on membership, the latter being composed of the state vice-presidents, is hopeful of encouraging results. The secretary will soon be able to announce particulars of railroad facilities, and is now engaged in preparing the annual appeal for early renewal of memberships and reservation of badge book spaces. Those seeking information should address John Hall, secretary, 204 Granite Building, Rochester, N. Y.

NEW ENGLAND NURSERYMEN'S ASSOCIATION.

The second annual convention of the New England Nurserymen's Association will be held at Hotel Bond, Hartford, Connecticut, Tuesday and Wednesday, February 24th and 25th. Following is the program:

Tuesday, February 24th, 1 P. M.—Organization; president's address; reports; appointment of committees.

The Bug Question—The chief inspectors of the New England States and Department of Agriculture, Washington, have been invited to lead a general conference and discussion on this most vital subject.

Forestry and Its Relation to the Nurserymen—Professor J. W. Toomey, Yale Forestry School; W. O. Filley, Connecticut State Forester.

Local Retail Nursery and Sales Grounds—E. F. Coe, New Haven, Conn.

6.30 P. M., Dinner—Given by the Connecticut Nurserymen's Association.

Wednesday, February 25th, 9.30 A. M.—Election of Officers.

10.00 A. M., The Nurserymen and Public Parks.—George A. Parker, Superintendent of Parks, Hartford, Conn.

Evergreens for New England—Henry Kelly, New Canaan, Conn.

1.30 P. M., Proper Methods of Growing Herbaceous Stock in the Nursery.—A. E. Robinson, Daniel A. Clarke, Julius Heurlin, George C. Thurlow, John Kirkegaard.

Imported Nursery Stock.—W. H. Wyman, North Abington, Mass.

Early History of the Nursery Business.—F. E. Burroughs, President, Connecticut Nurserymen's Association.

J. H. Hale, "The Peach King."—His talks are always of interest to Nurserymen.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The regular monthly meeting of the above named society was held in Greenwich, Ct., Friday evening, Feb. 13th. Owing to severe weather there was a somewhat reduced attendance and the exhibits were fewer, but up to the usual high quality. The judges made the following awards:

Phalaenopsis Schilleriana, from Adam Patterson, cultural certificate; Killarney roses, from Carl Hankansen, honorable mention; Primula malacoides alba, from P. W. Popp, vote of thanks; Winter-flowering orchid sweet peas, from P. W. Popp, honorable mention.

This being the first time that this new type of winter flowering sweet peas was exhibited here they attracted considerable attention. The question of summer and fall exhibitions was discussed, and the executive committee was authorized to meet the Board of Managers of the Portchester Hospital and to arrange, if practicable, for a show in June in connection with the hospital management. A communication was then read from the National Association of Gardeners urging the need of greater co-operation of the local societies with the National body. The question is one deserving serious consideration by the gardening fraternity and there is no doubt that the movement will take concrete form after the various local societies have had a chance to discuss the matter. There was quite a little discussion on the subject, the sense of which seemed to be that if the local societies could have adequate representation on the governing board and a voice in shaping its policies the Westchester and Fairfield Horticultural Society would heartily cooperate with the national body in any movement to further the advancement of horticulture.

P. W. Popp, Cor. Sec'y.

AMERICAN ROSE SOCIETY.

Mrs. Hubbard's Gold Medal.

The executive committee of the American Rose Society met last Monday and took up various important questions relative to the coming exhibition. The list of judges were chosen subject to their acceptance. The Mrs. Gertrude M. Hubbard gold medal will be awarded on Monday, March 23rd. This gold medal is a special prize provided for in perpetuity by the late Mrs. Gertrude M. Hubbard of Washington, and the provisions are that it is to be given once in five years to the raiser or originator of the best rose introduced in the five years previous to the award, the rose to be of American origin, and this will be the first occasion on which it is awarded. A special prize was offered by Treasurer Harry O. May, for the best 25 blooms of any undisseminated variety of roses, $25.00. The Waban Rose Conservatories offer a prize of $25.00 for the best 50 Russell Roses, and a special prize is also offered by the executive committee of the American Rose Society, the particular object to be determined later.

The annual business meeting of the society will be held on Monday evening, March 23rd, subject to adjournment. Last year the attractions at the Grand Central Palace were so great that it was difficult to get anything to counterbalance and it was deemed advisable to omit everything in the way of papers. The society will have a special booth where any business of the American Rose Society may be transacted; this will be an improvement over conditions existing in that respect last year.

Entries for all the rose classes should be forwarded to reach the secretary at Beacon, Dutchess Co., N. Y., not later than March 10, 1914. Robert Simpson of Clifton, N. J., has accepted the position of manager for the Rose Exhibition. Treasurer Harry O. May, will be assistant to the secretary during the exhibition week.

President Wallace R. Pierson is sparing no time or expense personally to interest everyone, large or small, who grows roses, to become a part of the exhibition and force of the American Rose Society. S. S. Pennock of Philadelphia, is in charge of the executive committee's prize.

Benjamin Hammond, Sec.

ILLINOIS AND INDIANA STATE FLORISTS.

For the Danville meeting, March 10-11, the transportation committee of the Chicago Florists' Club has arranged to leave on the Chicago & Eastern Illinois, Dearborn station, Dearborn and Polk streets, at 11:10 A. M. (Dixie Limited) March 10, due Danville 2:25 P. M. An earlier train leaves at 7:43 A. M., due Danville at noon, and a later train leaves 12:30 P. M., due Danville 3:45 P. M. The 11:10 A. M. and 12:30 P. M. trains carry dining cars with meals a la carte. The fare one way is $2.46.

J. B. Deamud,
Chairman Transportation Com.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

There was a very good attendance at the February meeting of this club last Tuesday evening, but a disappointment awaited them in the announcement that Mr. Tuthill who had been scheduled to talk on "Advertising, the Gasolene of Business," would not be able to appear. Between the summer convention preparations, discussion of the exhibits and the relationship of the club to the National Society, the members found plenty to talk about until almost eleven o'clock. Vice-president Welch of the S. A. F. and ex-president J. K. M. L. Farquhar gave details of what is being done in the way of early preparations for the entertainment of the S. A. F. visitors, next August and for the proposed outdoor garden exhibition, which is planned as a feature of that occasion. In accordance with procedure as outlined by the executive committee President Kennedy appointed W. N. Craig, Wm. Sim, Duncan Finlayson, Peter Fisher, Geo. M. Anderson, Wm. Downs, H. H. Bartsch, and J. Duguid as his colleagues on the Club's representation on the general committee of fifty.

On the exhibition table were the following exhibits: Hadley rose from A. N. Pierson, acknowledged by all to be one of the loveliest forcing roses ever introduced; Ed. Winkler, carnation Morning Glow and yellow marguerites; S. J. Goddard, four standard varieties of carnations; Peter Fisher, carnations Gorgeous and No. 44, the latter a very handsome mottled flower, somewhat on the order of Prosperity, but color much deeper than that variety; E. H. Borowski, some superb cyclamen plants; W. R. Thornhill, gardener for Mrs. Augustus Hemenway, Euphorbia Jacquinæflora, and Leptosyne maritima; Thos Roland, winter-flowering Spencer sweet peas; Wm. Sim, sweet peas; Patten & Co., carnation Princess Dagmar. A report of merit was awarded to Hadley rose and a cultural report of merit to Mr. Borowski's cyclamen. Vote of thanks for all the other exhibits. Carnations Matchless from Cottage Gardens Co., Philadelphia Pink from S. S. Skidelsky & Co., and Champion from F. Dorner & Sons Co., which were expected did not arrive, the delay being, no doubt, due to the rough weather.

In the discussion of the exhibits quite a debate was had on the methods of getting yellow marguerites to bloom in mid-winter. Many cultural points were brought out by the different speakers, but that this subject is a refractory one under forcing conditions was evidently the conviction of all. That it has a demand during the winter season far beyond the available product was agreed. The successful carrying of the plants through the summer seems to be one of the chief difficulties in the way.

Quite a lively discussion on the suggested plans for co-operation with the S. A. F. In a broad way the sentiment prevailing among the members seemed to be very friendly and a motion offered by F. E. Palmer expressing sympathy with the work of the National Society and a desire to know what its wishes are in this matter was passed unanimously.

ST. LOUIS FLORIST CLUB.

The monthly meeting of the St. Louis Florist Club took place on Thursday, Feb. 12th, with 35 members in attendance. The Publicity Committee responded through its chairman R. J. Windler, who after reading the workings of his committee since its appointment, requested that the committee be discharged owing to the little interest displayed by the local florists in this work. After a general discussion it was voted that the committee be discharged with a vote of thanks. The trustees made a report as to their plans on the anniversary banquet. It was voted to hold said banquet in June. The fall flower show came up next and the matter was finally laid over for the March meeting. R. J. Windler, State vice-president of the S. A. F. read a letter from President Wirth as to the club's affiliation with the National Society. This after a discussion was highly recommended.

John Steidel showed a fine vase of a pleasing pink seedling carnation and promised to show a vase later on to be judged. Mr. Jaenicke was down for a lecture on City Gardens but the late hour caused it to be laid over until the March meeting.

According to Treas. Smith's report the club is well off financially. His report made a great hit with the members.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The regular monthly meeting of the P. H. S. was held on the 17th inst. Very little outside of routine matters took place; and nothing worth reporting except, perhaps, the following new prize for the spring show, offered by Lord & Burnham Co.: Best display of flowering plants, not less than four or more than ten plants; no restriction as to size of pots; prize, twenty-year guaranteed gold watch. There were a number of keen exhibitors present at the meeting and it was significant of their feelings when their right hand went unconsciously to their left hand pocket. One of them took his watch out and looked at it. It did seem a little worn and shabby—so of course he immediately made up his mind that the prize was his and of a consequence must belong to him by hook or by crook. Lord & Burnham Co. has made a timely and welcome offering and whoever wins it will deserve it.

AMEICAN CARNATION SOCIETY.

In reference to the medal awarded at Cleveland, Ohio, to Peter Fisher for having originated the variety Beacon, Secretary Baur of the American Carnation Society writes as follows:

"The conditions under which the medal is awarded are as follows:—

"Whenever a seedling variety shall manifest superiority, commercially, and maintain such superiority for three or more years, the directors may recommend that the originator be given a special gold medal, to be called the 'Medal of Merit.'

"This medal is considered the very highest honor that could be paid an originator and is supposed to be awarded only in very exceptional cases. This is the first medal awarded under this provision, although it was adopted at the 1908 convention in Washington, D. C."

CLUB AND SOCIETY NOTES.

The eighth annual dinner of the Nassau County Horticultural Society, was held at the Oriental Hotel, Glen Cove, ½. Y., on Thursday evening, February 19. Particulars in next issue.

J. B. Norton, physiologist of the United States Department of Agriculture at Washington, delivered the lecture before the Massachusetts Horticultural Society Saturday afternoon, February 14. His subject was "Making a New Kind of Asparagus."

Problems of soil fertility in greenhouses and other matters of interest to florists were discussed by Acting Superintendent F. J. Sievers and C. V. Holsinger, Milwaukee County Agricultural school, before the Milwaukee Florists' club. Feb. 5.

At the last meeting of the North Shore, Mass. Horticultural Society, held Feb. 6, F. J. Elder, of the Lord & Burnham Co., gave the members a very interesting and instructive lecture on Greenhouse Construction and Heating. There was a good attendance.

The annual report of the proceedings of the Society of American Florists and Ornamental Horticulturists, for the year 1913 has been received from secretary John Young. It is a volume of 316 pages very comprehensive in its contents and bearing unmistakable evidence that this organization, now in its thirtieth year is rapidly growing in membership, strength and usefulness.

The New London Horticultural Society held its monthly meeting on the 12th inst. A fine exhibit of carnations was the chief feature. Among those shown were Princess Dagmar from Patten & Co., Tewksbury, Mass., and Benora from Edward Smith, New London; other varieties were shown by different gardeners from the Pequot

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NATIONAL ASSOCIATION OF GARDENERS

section, also a collection of vegetables. The next meeting is March 12th which will be "Question Night."

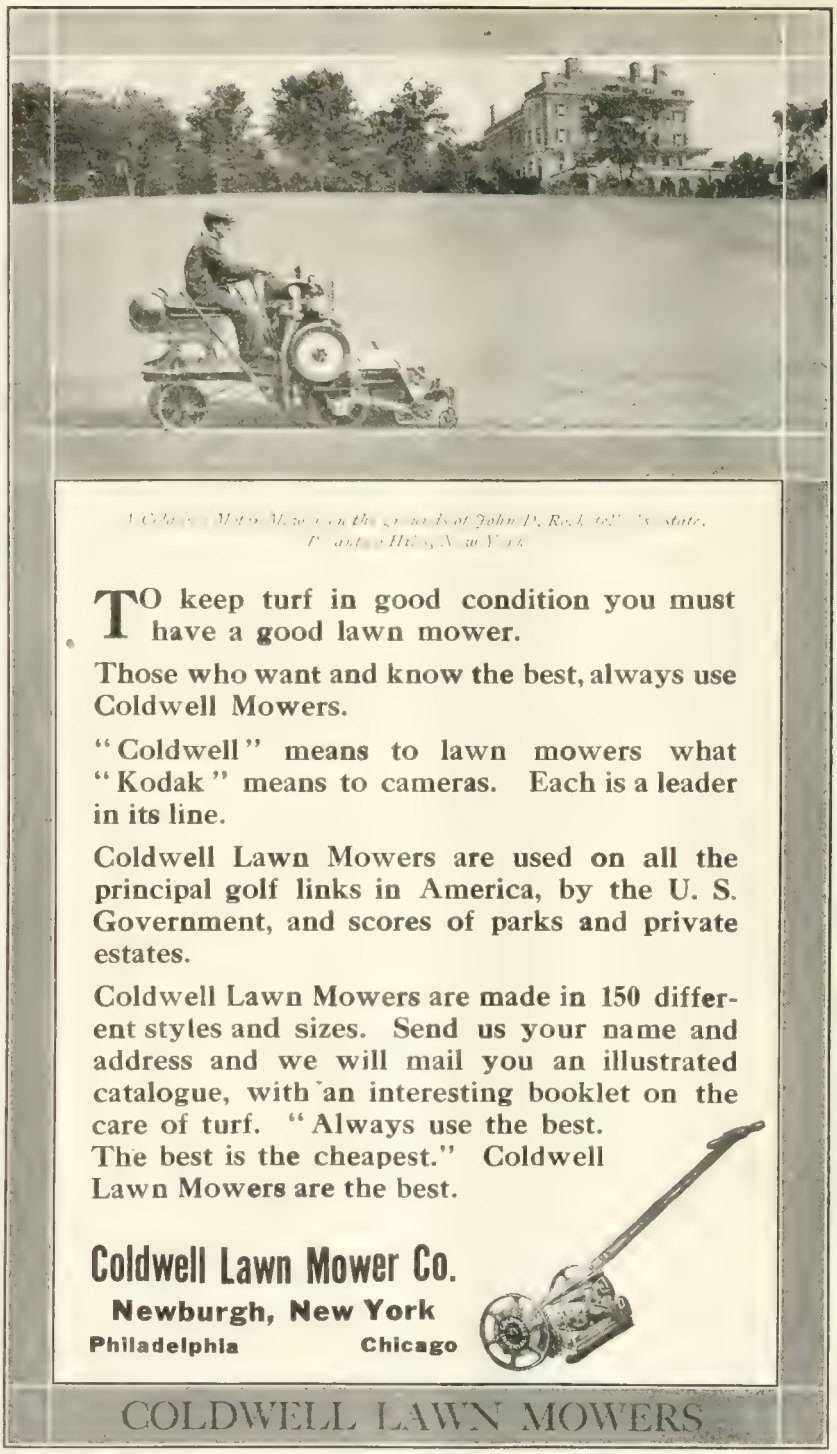
A meeting of the Monmouth County Horticultural Society, was held Jan. 15, at Red Bank, N. J. There was a good attendance, election of officers resulted as follows: William Metzdorf, president; Philip Bonner, vice-president; Harry A. Kettel, recording secretary; Percy Hicks, financial secretary; Philip Bonner, corresponding secretary; George H. Hale, treasurer; Philip Bonner, William Dowlen and John A. Kennedy, executive committee. The annual exhibition will be held Wednesday and Thursday, Oct. 28 and 29. The annual dinner was held Wednesday evening, Feb. 18, 1914, limited to members and their lady friends only.

The Holyoke and Northampton (Mass.) Florists' and Gardeners' Club met Feb. 12 at Gallivan Bros.' greenhouses in Smith's Ferry. It was voted to hold the second annual flower show in Northampton in the fall. The annual banquet will be held in Boyden's Inn, Northampton, March 1. The committee in charge of the preliminary arrangements for the show is as follows: James Whiting, Amherst, R. S. Carey, South Hadley Falls, George H. Sinclair and George Strugnell of this city, and Frank Barnard of Northampton. The committee in charge of the banquet is composed of R. S. Carey of South Hadley Falls, Ned Hennessey of Northampton and James Whiting of Amherst. The club awarded Charles E. Mackintosh of "Bonnie Brae," a certificate of merit for a fine display of cyclamens.

The seventh annual meeting and dinner of the American Society of Landscape Architects at Hotel Victoria, New York City, was attended by thirty. Warren H. Manning, president was toastmaster and chairman. Harold A. Caparn of New York, just returned from Washington, where he attended the hearing on the proposition of Federal control of Niagara Falls, which the society strongly advocates, spoke on that topic. Harris A. Reynolds, secretary of the Massachusetts Forestry Association, in his address on "State Forests for Massachusetts," urged State prohibition of the ruthless and harmful stripping of its forests. Forests, he pointed out, were so closely allied with other natural resources that the present wasteful method of clearing them was costing millions. An attempt should be made, he said, to preserve them; or, lacking this, to compel owners to cultivate the soil after their removal.

The meeting of the Connecticut Horticultural Society on February 13th was given up to the consideration of cyclamen, and Mr. George W. Fraser, of the Connecticut Agricultural College, who was the principal speaker showed one cyclamen plant and a vase of carnations, which he named "A. G. Gulley" and blooms of a rose crossed between Belle Seibrecht and Kaiserin Augusta Victoria. He gave a complete history of the cyclamen. He stated in part that the cyclamen originated in Italy, and in the year 1731 they were introduced into England, but were not favorably received. and their value as flowering plants was not discovered until about fifty years ago. The temperature for cyclamen should be kept at about 60 degrees. The meeting was well attended, and the members extended to Mr. Fraser a hearty vote of thanks.

ALFRED DIXON, Sec.
Weathersfield, Conn.



Feb. 13, 1914.

Dear Sir:

Enclosed find a postal money order for $1 for one year's subscription for your valuable paper. "Rose Growing Under Glass," as practical information, is alone worth that money.

Yours very truly,

Mass. M. B.

NEWS NOTES.

Springdale, Conn.—Lilian Lund has leased her greenhouses in Glenbrook to Hugh P. Campbell, who expects to start in the florist business. The houses were formerly used by florist LePage.

Chicago, Ill.—George Willens, formerly in the employ of John C. Moninger Company has opened an office at 1527 Spaulding avenue, under the name of the Willens Construction Company, and is prepared to erect greenhouses on contract.

DON'T MISS

The Annual Banquet of the Gardeners' and Florists' Club of Boston, Horticultural Hall, Tuesday Evening, February 24 at six P. M.

GREENHOUSE CONSTRUCTION AND HEATING.

The Beginnings.

(A paper read before the North Shore (Mass.) Horticultural Society by F. J. Elder.)

It is impossible to do more than touch briefly on the various features of construction and heating in a short essay. A history of the subject would trace the various methods of construction, the methods of heating and ventilating, the reasons for these and the relationships of the different factors and methods to each other. Such a history could not overlook the old-fashioned pits with their roofs of flat pitch and benches up near to the glass and the roofs constructed of heavy sash with small lights. The poor plants struggling up to the light in these dark houses were accused of having an affinity for the glass. It was thought that the glass "drew" the plants, and it was also thought that it was necessary to have the plants near the glass. Now we know that the further the sash bars and other roof members are from the plants, the more broken up are the shadows and the light is much better.

Lean-to Houses.

Later came the lean-to greenhouses, which are still in vogue. These houses, facing south and placed against masonry walls, were economical from the heating standpoint, as the rear walls absorbed the heat of the sun. In the pits and lean-tos of former days, the heating was first accomplished by means of stoves or bricked-in furnaces. The furnaces were connected to the chimney, which was at the opposite end of the house, by means of horizontal flues which were built of brick or pipe, and were placed under the benches. Such methods were primitive, not always cheap in first cost, and decidedly wasteful. Sometimes these flues leaked and then the contents of the houses were killed by gas. The ventilation of these old-time small greenhouses was generally obtained by lifting the sash, of which the roofs were constructed, by means of a pulley, and held open by notched sticks; or by sliding the sash up and down by means of ropes and pulleys.

I do not mean to recite the history or describe the evolution of the modern greenhouse. I wish merely to tell briefly of the methods of construction of the best modern private and commercial greenhouses, and of the methods of heating, ventilating and benching these houses.

Advent of the Iron Frame.

The first iron-frame greenhouses were erected for Mr. Jay Gould at Irvington on the Hudson, N. Y. In this range, erected nearly thirty-five years ago, and still one of the notable private plants, the houses were constructed with cast-iron sills, iron rafters and purlins capped with wood. The range was designed and erected by Mr. F. A. Lord, and the principle of the construction of these greenhouses is still used in all iron and steel frame houses. Many details are different, of course, but the principal feature is the same—that of having the iron and steel frame work inside, and the wood members which received the glass on the outside. This construc-



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It is a variety that will be found all that the name implies. It means better late mums, and you need it.

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A Seedling of Cardinal Crossed with an Unnamed Red Seedling

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tion has proven most durable, and the best suited to our variable climate.

The Greenhouse a Factory.

The modern greenhouse has been developed through constant effort to obtain durability and light. These may be considered the two most important requirements. The day of the very cheap greenhouse has passed because both the owner of private greenhouses, and the florist, realize today that the first cost is not so important as the final cost. When we build private greenhouses for pleasure and enjoyment, what pleasure will we derive from the houses if their ridges sink, their roofs and sides become warped, and the glass slides out of place? From the florists' point of view, is not the greenhouse but a factory, and is it not as reasonable to build well a flower factory as it is a factory for the production of any other article of commerce? Build well, and your maintenance cost is low. Depreciation percentage is low. Equip your factory or green house with proper facilities, and the producing cost will be low.

We must have light if we have nothing else. In general, plants grown in the dark are not hardy. Light is required to develop firm resistant tissue, and we are given as an instance potatoes sprouted in a cellar. The sprouts will wilt when exposed to normal conditions of light and heat. Because of our better understanding now of the absolute necessity for light, the greenhouse with small panes is a thing of the past too.

I stated that I would not attempt to give the history of construction and methods. I will only deal with the best modern iron-frame greenhouses. These must be divided into two classes, — private and commercial greenhouses.

The Modern Private Greenhouse.

The modern private iron frame greenhouse is erected on walls of masonry, stone, brick, or concrete. Heavy cast-iron sills are set in mortar on top of the walls, and in large buildings are anchored by heavy bolts which are built into the walls. Rafters are made of one-half inch flat iron of from three inches to five inches in width. These rafters are bolted to the sills, and are either bent, welded or spliced at the eaves line to give shape to the roof. The rafters are brought together at the ridge and secured by means of ridge plates. Rafters are set on the sills eight feet four inches apart, center to center, and the space between two adjacent rafters is called a section, so there are three sections to 25 feet, and 12 sections to 100 feet. In other words, these houses are built in multiples of eight feet four inches. The rafters are held parallel to each other by angle iron purlins, which are placed lengthwise of the house, and are double lugged and bolted to the rafters.

Three Ways.

At the eaves the house may be built in any one of three ways. First, is the galvanized angle-iron eaves plates, which are much stronger and much more durable than the cumbersome old-time wooden plates, and which cast very little shade. Also one of the flanges of the angle eaves plate is inside of the house and subject to the heated interior. Hence, icicles do not grow very well on these plates, and the plate has been called the "ice-clearing eaves plate." The angle-iron plate is fitted with metal clasps which receive the ends of the sash bars. This plate when made with metal clasps as described, is protected by letters patent. Angle-iron eaves plates are more adaptable to commercial houses than for houses on private estates.

The second method of arrangement at the eaves is the sectional cast-iron gutter, which is bolted to the rafters. One side of the gutter (the inside), is provided with a flange, to which clasps are bolted to receive the sash bars. The inner side of the gutter is exposed to the inside temperature of the greenhouse, so that icicles and snow will not usually last very long in such gutters as they will in the old-time non-conductiong wooden gutters.

The third arrangement or detail is the curved eave. In this case a combined sill and gutter is used to cap the

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POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.

ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.

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DRACAENAS, 3 in., $4.00 per 100.

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"QUEEN OF THE EARLIES" ASTERS
(Queen of the Market), valuable on account of their extreme earliness and for cutting; plants 12 inches high; medium-sized double flowers on long stems.
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A new race of American Comet Asters resembling Japanese Chrysanthemums.
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masonry wall. The rafters are bent at the eaves to an easy and graceful curve. Curved glass is used at the eaves, giving a very pleasing effect and a house of the maximum light, because there is neither eaves plate nor gutter at the eaves to obstruct light. The majority of private greenhouses are now being built with curved eaves.

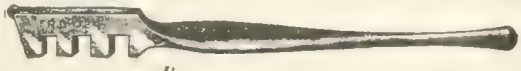
Concrete Walls.

Occasionally a private house is built without foundation walls. These houses are built then with foot pieces for the purpose of saving masonry sub-walls or foundations. This method is used now exclusively in the best commercial iron-frame houses.

I stated that the rafters are placed eight feet four inches apart, and the foot pieces of these rafters are extended into the ground about two feet six inches. Holes are first dug to hard pan, or the bottom is thoroughly tamped. Concrete footings are made for the foot pieces to rest on. The foot pieces are then firmly set in concrete piers. Concrete panel or curtain walls four inches to nine inches thick are built between the flat iron posts or rafter feet. These walls need not be more than four inches thick. They only extend three inches to six inches below grade and the ends rest on the concrete piers. The outside faces are finished in various ways;

(Continued on page 272.)

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QUEEN CHARLOTTE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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SOUV. DE A. CROZY. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orange Shades

WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
PENNSYLVANIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
MRS. KATE GRAY. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orchid-flowering Cannas

ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
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GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
WILLIAM SAUNDERS. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

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Our Cannas are true to name—two and three and sometimes four eyes—are sound, dormant, and are packed 250 in a box. Two can be "cleated" together and shipped as one. One box of 250 sold at thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices on quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us we will substitute or send only the best for all purposes.

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Weeding Out the Offenders.

New Brunswick, N. J.—J. P. Helyar, seed analyst of the New Jersey State Department Station, has started a campaign to rid the State of seed salesmen who are defrauding farmers by selling inferior seed under false pretenses. He has caused the arrest of O. P. Rice, a seed salesman, who has operated in various parts of the State.

The man was arrested at Lambertville on a warrant issued by Justice of the Peace Charles A. Sedan, of this city, on complaint of Harvey Dey, a farmer of Plainsboro. The charge is that Rice sold two bushels of seed, guaranteed to be red clover, to Mr. Dey, and that analysis of the seed at the experiment station showed it to be composed of 56.03 per cent. German millet, and 42 per cent. clover, the rest being weed. The mixture cost Rice $4.29 a bushel, Mr. Helyar says, and he sold it for $9.

The seed analysis says that Rice represented that he was connected with the Rice Seed Company, of Cambridge, N. Y., a reputable concern with which he has no connection. He also offered the farmer seed he called Australian clover at 30 cents a pound which Mr. Helyar says is really crimson clover, worth ten cents a pound.

Trenton Evening Times.

NEWS NOTES.

Akron, O.—J. J. Waaland has purchased the Imperial Greenhouses, 557 South Bowery street.

Providence, R. I.—Eric A. Bonevier has purchased the greenhouse range of Mrs. Fanny Butcher.

Claremont, Cal.—The Claremont Nurseries have increased their capital stock from $40,000 to $75,000.

Berlin, Wis.—J. Howard Smith has purchased the nursery of George Jorgenson & Son, known as the Lake View Nurseries.

Cleveland, O.—Mrs. Mary Connors has bought out Miss Julia Ehrhar's interest in the Ohio Floral Company, 1698 West 25th street.

Baltimore, Md.—John Harman has bought the greenhouses on the Alexander Brown estate, and will shortly erect some Hitchings houses, 20x100.

Memphis, Tenn.—The Aberdeen Floral Company, of Aberdeen, Miss., has leased the plant of the Hernando Floral Co. and will supply the Memphis market with potted plants and cut flowers.

Minneapolis, Minn.—Gerald Reed Martin and Jessaline Northrup, daughter of Jesse E. Northrup, were married on February 7th.

WALTER MOTT'S NOTES BY THE WAY.

Beverly.

Noting the excellent stock grown by A. A. Pembroke, one of the brightest things seen was a bed of Calendula Orange King, which I understand has sold in the market for $1.50 per dozen blooms. As soon as 'tis past, its place will be filled with tomatoes. Here one sees Carnation Gloriosa with stems actually measuring 5 feet; not many 'tis true, but it conveys an idea of the splendid vigor and freedom of this variety which vies with Pink Delight as the most profitable in its class. The Godfrey calla is superior to the parent but is not considered very profitable unless grown in an old house unfit for much else and there are but few of this kind now. Growers realize the importance of being up to the minute in these days of competition when the best is none too good.

NEW CORPORATIONS.

Dover, Pa.—Oliver Floral Company, Inc., capital, $125,000; W. I. N. Lofland, Dover.

Omaha, Neb.—Morgan-Shawler Company, florists, capital stock $10,000. Incorporators, James W. Shawler and Howard R. Morgan.

Hugo, Okla.—Elberta Fruit & Nursery Company, capital stock, $10,000. Directors, J. M. McConnell, W. P. Stewart and H. A. McDonald.

Providence, R. I.—Everett Forestry Company, capital stock, $50,000. Incorporators, Charles J. Everett, Hugh F. Cameron and Arthur A. Thomas.

"QUALITY" SWEET PEA SEED

As fine Sweet Peas as grow, and true to name at prices which will bear investigation. Prices for immediate delivery.

SPENCER	Pkt.	Oz.
Florence Nightingale	$ .10	$ .30
Flora Norton	.15	.30
Asta Ohn	.10	.30
Pearl Grey	.10	.10
Apple Blossom	.10	.20
America	.10	.20
Countess	.10	.20
Blanche Ferry	.10	.25
Duplex Pink	.10	.30
Duplex Crimson	.15	.35
Dainty	.10	.20
White	.15	.35
Othello	.10	.20
Rainbow	.10	.35
Gaiety	.10	.25
King Edward VII	.10	.20
Primrose	.10	.30
Martha Washington	.10	.20
Queen Alexandra	.10	.20
Sterling Stent	.10	.35
Fancy Mixed	.10	.20

The Stamford Seed & Nursery Co.

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ASPARAGUS PLUMOSUS NANUS

Plant seeds now. When potted Asparagus Plumosus Nanus often sells at $4.00, or over per hundred during June, July and August. Northern greenhouse-grown strain Asparagus Plumosus Nanus, $3.25 per 1000; $15.00 per 5000. Asparagus Hatcherii, 100 seeds, $1.00; 1000 seeds, $6.00.

Aster Seed

Queen of the Market

	Trd. Pkt.	Oz.
Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choiced Mixed	.20	.65

Wire or write for our 1914 Wholesale Catalog. It will save you money. Contains complete list of best novelties and standard varieties. Get it.

MICHELL'S SEED HOUSE

Dept. Q, 518 Market St., Philadelphia, Pa.

CANES

FRESH CUT ILLINOIS

6 to 8 Feet

$7.00 per 1000

Wm. Elliott & Sons

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FLOWER SEED SPECIALTIES FOR FLORISTS

All grown by English and German Specialists.

Arctotis grandis	at $ .20	per ¼ oz.
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Cineraria maritima candidissima	at .20	per oz.
Geranium, Apple-scented	at .25	per 100 seeds
Hibiscus grandiflorus, "Sunset"	at .25	per ⅛ oz.
Mignonette Pyramidalis Triumph	at .50	per ⅛ oz.
Pink plumarius, double and semi double	at .35	per ⅛ oz.
Petunia hybrida, fine mixed	at .20	per ¼ oz.
Petunia hybrida Inimitable, striped and blotched	at .30	per ¼ oz.
Poppy. The Shirley extra selected mixture	at .15	per ¼ oz.
Salpiglossis Emperor. Choicest mixed	at .30	per ⅛ oz.
Tagetes signata pumila, Golden Gem	at .20	per ¼ oz.

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SOW EARLY SEASONABLE SEEDS

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Of finest quality for Early and Late forcing in cases of 1000, 500 and 250 pips at $16 per 1000. All expenses paid.

Terms 30 days net, or 3 per cent. discount for cash with order.

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SPECIAL STRAINS

OUR ASTERS, CYCLAMEN AND PRIMULAS ARE UNEQUALLED.

Trade List Ready.

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32 South Market St., Boston, Mass.

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Write us for price on both globe and flat varieties. We are also quoting Onion Sets.

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FOR FLORISTS

Ask for 1913 Catalogues

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Flower Seeds for Florists

ALL NEW CROP

AGERATUM.
Dwarf. Blue and white, 30c. per oz.

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Little Gem. 30c. per oz.

ASPARAGUS.
Plumosus Nanus. Greenhouse grown, 50c. per 100 seeds; $4.00 per 1000 seeds.
Hatcheri. $1.50 per 100 seeds.

ASTER.
Branching. Separate colors, 80c. per oz.; mixed, 65c. per oz.
Crego. White and pink, 75c. per oz.
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BEGONIA.
Erfordii. 50c. per pkt.; 1-16 oz., $1.50.
Semperflorens Rose. ¼ oz., 50c.
Semperflorens Vernon. ¼ oz., $1.00.
Gracilis Luminosa. 25c. per pkt.

CANDYTUFT.
Empress. 15c. per oz.
Giant Hyacinth Flowered. White, 25c. per oz.

CENTAUREA.
Imperialis. White, 50c. per oz.
Margaritae. 60c. per oz.

CINERARIA.
Maritima. 15c. per oz.
Candidissima. 20c. per oz.

MIGNONETTE.
Allen's Defiance. 30c. per oz.
Grandiflora. 10c. per oz.

PANSIES.
Thorburn's Superb Mixture. $4.00 per oz.

PETUNIA.
Howard's Star. ¼ oz., 50c.

SALVIA.
Splendens. $1.25 per oz.
Bonfire. $2.00 per oz.
Zurich. $4.00 per oz.
Silver Spot. $1.50 per oz.

VERBENAS.
Separate Colors. 50c. per oz.
Hybrid Mixed. 40c. per oz.
Hybrid Mammoth Mixed. 80c. per oz.

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Rosea. 45c. per oz.
Rosea Alba. 50c. per oz.
Alba Pura. 50c. per oz.

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Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

O. V. ZANGEN

SEEDSMAN, HOBOKEN, N. J.

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Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

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Artistic Designs . . .
High Grade Cut Blooms

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Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
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FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2189
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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

ST. VALENTINE'S DAY IN CHICAGO STORES.

St. Valentine's Day proved worthy of recognition as a "special" for all in the florists' business and well repaid those who had made an extra effort this year to have the day stand for flowers in general and not for violets only. Special window displays were made by the retailers showing the flowers in attractive arrangements in the new Valentine boxes and baskets and the public showed a practical appreciation. The past custom of limiting purchases to violets seems to have given way and both wholesalers and retailers recognize the advantages of a broader range.

At Wm. J. Smyth's the demand for corsage bouquets led, preferably of violets, lily of the valley and orchids, with a very satisfactory quantity of the last. Spring flowers were in demand and were preferred growing in pans or boxes rather than as cut flowers. At the Fleischman Floral Co.'s store, Manager Wienhoeber reports St. Valentine's Day to far surpass the sales of previous years, fifty thousand violets and one thousand orchids having been sold besides hampers of all kinds. At A. Lange's, violets led in sales on St. Valentine's Day and blooming plants of azaleas, primroses, hyacinths and pans of tulips, jonquils, etc., came second. Mr. McAllister states that the store used one hundred thousand doubles and half that amount of single violets. Boxes of cut flowers also were a special feature of the day.

STEAMER DEPARTURES

Allan.

Scotian, Boston-Liverpool....Mar. 5

Atlantic Transport.

Minnewaska, N. Y.-London..Feb. 28

American.

Philadelphia, N. Y.-S'h'pton Feb. 27

Cunard.

Franconia, N. Y. Mediter'n'n. Feb 24
Lusitania, N. Y. Liverpool. .Feb 25
Andania, Boston-Liverpool .Mar 5

French.

La Lorraine, N. Y. Havre. .Feb 25
Rochambeau, N. Y. Havre...Feb 28

Hamburg-American.

Prinz Bism'ck, Boston-Hamb. Feb. 27
Pres. Lincoln, N. Y.-Hamb'rg Feb. 28

Holland-America

New Am'dam, N. Y.-Rot'dam. Feb 24
Noordam, N. Y. Rotterdam .Mar 3

Leyland.

Devonian, Boston-Liverpool Feb 28
Canadian, Boston-Liverpool..Mar 7

North German Lloyd.

Barbarossa, N. Y. Bremen Feb 26
Pr. Irene, N. Y.-Mediter'n'n Feb 28

Red Star.

Samland, N. Y.-Antwerp.....Feb. 25
Vaderland, N. Y.-Antwerp...Mar. 4

White Star.

Cedric, N. Y. Liverpool .Feb. 26
Arabic, Boston-Liverpool .Feb. 28
Olympic, N. Y.-S'hampton. .Mar. 4
Celtic, N. Y. Mediter'n'n... Mar. 7

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611 FIFTH AVENUE
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Cost of Cabling Foreign Deliveries
Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
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STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
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Deliver orders from any part of the country to
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

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23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
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FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
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Send flower orders for delivery in Boston and all New England points to
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Auto delivery of Designs and Flowers to any address in Washington.
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WASHINGTON, D. C.
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Member Florists' Telegraph Delivery

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HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
Nashville, Tenn.—Joy Floral Co.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

Waterbury, Ct.—E. Hanson, East Main street.

Pittsburgh, Pa.—Wm. L. Baker, 634 Penn avenue.

St. Louis, Mo.—Joseph Witek, Mcpherson and Euclid avenue.

Cleveland, O.—Swinton & Vick, Lake street and Detroit avenue.

Elizabeth, N. J.—Union Square Floral Shop, 841 Elizabeth avenue.

Homestead, Pa.—L. M. Johnston, successor to Homestead Cut Flower Company.

Milwaukee, Wis.—Kummer Floral Co., 1261-65 Hopkins street, opposite Union Cemetery.

ORDERS FOR
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WIRE OR PHONE TO
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22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
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Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
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1 Park St., Boston

YALE AND ALL CONNECTING POINTS
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CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

WASHINGTON NOTES.

Customs collectors and other officials connected with that service have been instructed to notify the Department of Agriculture or its local representatives when nursery stock imported from abroad is unclaimed in order that proper examination and inspection thereof may be made. If the proper officer of the Department of Agriculture shall certify that such unclaimed nursery stock was imported in full compliance with the Plant Quarantine Act and the regulations thereunder, it may be sold at public auction like other unclaimed merchandise. If certified to be imported in violation of this act and regulations, it may be destroyed under customs supervision.

A dozen or more bills have been introduced into the House of Representatives by the members of that body looking to an amendment of the present postal laws to allow of the admission of seeds, cuttings, bulbs, roots, scions and plants in the mails under the parcel post laws and regulations. That one of these bills will be adopted is expected but those interested in the matter should not "take a chance," but should get busy and write to their representatives in Congress. These petitions will, no doubt, be presented by their recipients to the Senate and House as a whole, and the missives will then be turned over to the proper committee for consideration. The various bills are being referred to the Committee on Post Office and Post Roads.

The snowstorm which visited Washington on Friday, the thirteenth, was the first real storm in several years, and was an exact duplicate of the one which hit the city fifteen years ago to a day. Some little damage has been reported from the nearby houses where quantities of glass were broken by snow slides. However, none of these are serious enough to at all effect business. Excellent reports are being received regarding the Easter crop. Lilies are coming along fine and the possibility is of an over-supply. Although many of the growers had the misfortune during the recent warm spell of having their azaleas come in bloom prematurely, regardless of the efforts made to prevent this by the whitewashing of the glass, it is hardly believed that there will be a shortage at the proper time.

The House of Representatives last week passed a bill prohibiting the employment of females for more than eight hours in any one day nor more than six days per week. Under no conditions can the female employees work overtime. A number of the stores here employ women but these as yet have made no move to do other than comply strictly with the requirements of the law. Stores in other lines of trade requiring the attendance of females for more than eight hours per day are contemplating the cutting down of wages where more girls must be employed to do a given amount of work, in proportion to the time thus lost, while others figure on cutting out female help wherever possible—and the girls did not want the bill passed. The bill was passed last year by the Senate so that it merely requires the signature of the president to become a law.

PHILADELPHIA NOTES.

The Carribean and the Sunny South has vouchsafed us the safe return of our much esteemed and well beloved J. Otto Thilow; brown as a berry and almost fat.

Fred Michell, Jr., is back from a three weeks' trip through Pennsylvania well heeled with orders and is now like Alexander the Great, contemplating new worlds to conquer.

Komada Bros. report brisk business in florists' supplies this season. Their new show room at 1008 Vine street has proved a great attraction and a fine convenience for "hurry up" customers.

As the new improvements at the Dreer addition at 716 Chestnut street approach completion the casual visitor gets a better conception of the added facilities, and the comprehensive plans for future developments. Four new floors and basement are now in use, altered, renovated and strengthened, from top to bottom. Much of the main floor will be devoted to show purposes, and during summer and fall frequent flower exhibits will be held. A special department devoted solely to plants will be a permanent feature.

A meeting of the executive committee of the American Rose Society, was held in Philadelphia at the offices of the Pennock-Meehan Co., on the 17th inst. Robert Simpson, Wallace R. Pierson, Robert Pyle and Samuel S. Pennock were among those who took active part in the proceedings. Matters in the making were discussed and none of these have progressed as yet to the point where they demand chronicle or comment. At least, so your scribe was informed—and he can say nothing at all with as much nonchalance as the next one. Remanded without bail.

CHICAGO NOTES.

Preparations for St. Patrick's Day are well under way by those who would make sure of their stock. The little shamrock plants, growing in their tiny pots, are a recent innovation for this day but the business has grown by leaps and bounds. One of the department stores placed an advance order for fifty thousand a year ago and has since added to it.

Fred Lautenschlager, sales manager for Kroeschell Bros., returning from a business trip following the Cleveland convention, says he found florists at Toledo, Springfield, Dayton, Ashtabula, Indianapolis, St. Louis and all along the way optimistic on the outlook for good business the coming spring. Mr. Lautenschlager's friends know, too, that while his report has the true ring to it, no pessimist could face that smile and remain one.

Blooming plants, which have been very scarce since the holidays, are now picking up again. The variety is not large; azaleas, primroses, hyacinths, tulips and daffodils constitute the offerings. Genistas are showing a little color and will soon be ready. Some most beautiful windows showing these plants in dark green baskets tied with yellow ribbons were seen last year and made the handsomest yellow and green windows of the season. Roses of the Baby Rambler type are looking fine but will not be in for some time. Boston ferns are scarce, especially in the large sizes.

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO
And Neighboring Towns
Are Thoroughly Covered by
SCHILLER, THE FLORIST
(Member Florists Telegraph Delivery).
Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
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REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

ST. LOUIS NOTES.

Dave Geddes of the Vaudevoort's Floral Store, left for Pittsburgh, Pa., on Friday, Feb. 13, on receipt of a telegram of the death of his father.

A. S. Carny, well known grower at Kirkwood, was badly damaged by fire early Monday, Feb. 9th. His brother florists in the neighborhood came to his rescue and repaired the damage in short order.

When Fred C. Weber, Jr., returned home on Saturday night, Feb. 14th, he found that his home on Waterman avenue had been broken into by burglars and everything of value had been carried away. He says the loss will be heavy unless the police recover the stolen property .

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches high,	$2.50	per doz.	4	24	inches high,	$5.00	per doz.
2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

Obituary

Jefferson Doremus.

Jeff. Doremus, a well-known rose grower of Madison, N. J., until recently when his health became impaired, died on February 7, aged 65 years.

Henry Copas.

Henry Copas, of Copas Bros., died at his home in Elyria, O., on February 2, aged 34 years. Mr. Copas was born in England, coming to this country with his parents when a child.

David Wirth.

David Wirth, of the firm of Wirth & Gaupp, Springfield, Ill., died at his home Feb. 3d. He was 48 years of age and a lifelong resident of Springfield. He is survived by his wife and two daughters.

George D. Cooley.

George D. Cooley, of Mittineague, Mass., died last week from the result of a paralytic stroke, at the age of 74. Mr. Cooley had been engaged in the florist business in Mittineague for many years and was highly respected. He leaves a widow and four children.

Mrs. H. B. Beatty.

A telegram from Richmond, Va., under date of February 17, tells us of the death of the wife of H. B. Beatty, former treasurer of the Society of American Florists. Funeral services at Oil City, Pa., on Friday afternoon, February 20. This bereavement will fall very hard on Mr. Beatty who was affectionately devoted to his wife and HORTICULTURE joins in the heartfelt sympathy which will now go out from the hundreds of S. A. F. members in the irreparable loss sustained by our friend of many years.

Helen Frances Amrhyn.

After a long illness, Miss Helen Frances Amrhyn, the nineteen-year-old daughter of Mr. and Mrs. Gustave X. Amrhyn, died on February 15 at her parents' home, Whitneyville, Conn. The deceased's father is superintendent of parks in New Haven, and her death brings intense sorrow to relatives and numerous friends. The late Miss Amrhyn is survived by her father and two sisters, the Misses Elsie and Jeanette Amrhyn. The funeral was held Wednesday morning from St. Joseph's R. C. church, New Haven.

Grand Rapids, Mich.—Edwin Fallas of Lowell has commenced suit against Eli Cross, florist, for $2,500 for his alleged failure to keep a contract for 200,000 tomato plants.

THE Florists' Supply House of America

H. BAYERSDORFER & CO.
1129 Arch St., Philadelphia, Pa.

GREENHOUSES CRUSHED BY SNOW.

Since the heavy storm of last Saturday, many reports of damage to greenhouse establishments have come in, only two of them thus far, however, being serious. These were at North Wales, Penna., where a section of the roof 75x300 feet in the big house of the Florex Gardens, 170 ft. wide and 750 ft. long, collapsed, burying many thousands of roses under snow and broken glass; and at Madbury, N. H., where about 400 running feet of the extensive house of W. H. Elliott was crushed in bringing destruction to about 600 running feet planted with carnations. We are very sorry to learn of these heavy losses to two of the leading establishments in floricultural enterprise.

NEWS NOTES.

Pittsburgh, Pa.—George Howard, an expert horticulturist was indicted by the grand jury yesterday, on a charge of extortion. He is accused of attempting to secure $5,000 from Mrs. F. M. Ferguson, of Morewood and Fifth avenues, where he was formerly employed as a gardener. Howard is said to have sent a letter to Mrs. Ferguson last Wednesday demanding money, and threatening that if she failed to give it to him he would blow up her residence. *Pittsburgh Leader.*

Boston—E. J. MacMulkin, florist, 194 Boylston street, has filed a voluntary petition in bankruptcy in the United States District Court. He states that he owes $83,937.27 and that his assets are of an uncertain amount. To unsecured creditors he owes $56,861.34 and $9,340 to secured creditors. The remainder of the liabilities consists of taxes, $302.09; wages, $482.25, and notes and bills, $16,951.59. There are about 150 unsecured creditors. Among them are the Federal Trust Company, $6588; C. H. Worster, Boston, $9184.05; George R. White, Boston, $3352; Waban Rose Conservatories, Boston, $2797. Francis J. Carney of Boston, with a claim of $5000, is the largest of the three secured creditors. Acting upon a petition of creditors, Referee Olmstead in the United States Bankruptcy Court has appointed John C. Heyer, receiver.

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UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

During Recess

The Greek Florists' Ball.

This affair, one of the greatest events in the calendar of the New York floral fraternity, was this year the biggest yet. The hall was crowded to the doors, leaving little room for moving about. The costumes of the Greek ladies were very beautiful. There was a splendid vaudeville show, with some of the Greek talent as well as the professional performers. Master William George Polykranas made a big hit with his violin playing. Most of the prominent florists of the city, wholesalers and growers attended and all are enthusiastic over the courteous treatment extended by the officers and committees. The decorations under the careful direction of George Nicholas, George Polykranas and Peter Velotas were the best seen in the hall in its history.

Bar Harbor Horticultural Society.

The Bar Harbor Horticultural society held its annual ball on the night of Feb. 11, and a very successful occasion it was. The mercury was 15 to 20 below zero, and this prevented the moving of plants and shrubs and palms for decorative purpose. Usually the winter decorations of this ball have been surpassingly beautiful and elaborate.

NEW YORK FLOWER SHOW.

Flower show matters are apparently progressing in great shape. The intervening weeks will be a time of great activity in all departments of this big enterprise. J. H. Pepper has been appointed chairman of the publicity committee. Trade tickets will be sold in blocks of 25 to 100 at the rate of 25c. each; in blocks of 100 or more at $20 per hundred. There will be no rebate for unsold tickets and the tickets must be paid for when delivered to the purchaser.

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Block Letters, $2.00 per 100.
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Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI February 16	CHICAGO February 16	BUFFALO February 16	PITTSBURG February 13
Am. Beauty, Special	35.00 to 40.00	35.00 to 40.00	60.00 to 75.00	..... to 60.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 30.00	20.00 to 50.00	40.00 to 50.00
" " No. 1	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00
Killarney, Extra	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	15.00 to 18.00
" Ordinary	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 12.00
Richmond, Hillingdon, Extra	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
" " Ordinary	6.00 to 8.00	4.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Maryland,,Ward,Taft,Sunburst, Ex.	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00	8.00 to 12.00
" " " " Ordinary	6.00 to 8.00	4.00 to 8.00	6.00 to 10.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to	... to ...	..... to .....
Carnations, Fancy	3.00 to 4.00	2.50 to 4.00	..... to 3.00	..... to 4.00
" Ordinary	2.00 to 3.00	1.50 to 2.00	2.00 to 2.50	2.00 to 3.00
Cattleyas	35.00 to 50.00	35.00 to 50.00	30.00 to 40.00	35.00 to 40.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 12.50	10.00 to 12.00	... to 15.00
Callas	10.00 to 12.50	10.00 to 12.00	8.00 to 10.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	3.00 to 4.00	2.00 to 3.00	..... to 3.00
Freesias	3.00 to 4.00	3.00 to 5.00	2.00 to 3.00	4.00 to 5.00
Daffodils	..... to 4.00	2.00 to 4.00	2.00 to 3.00	..... to 4.00
Tulips	3.00 to 4.00	2.00 to 5.00	2.00 to 3.00	..... to 4.00
Violets	.50 to .75	.50 to 1.00	.50 to .60	..... to .75
Mignonette	5.00 to 6.00	4.00 to 6.00	2.00 to 5.00	4.00 to 6.00
Daisies	1.00 to 1.50	1.50 to 2.00	1.00 to 1.25	..... to 3.00
Sweet Peas	1.00 to 1.50	1.00 to 3.00	.50 to 1.00	.50 to 1.50
Gardenias	25.00 to 30.00	25.00 to 30.00	20.00 to 25.00	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to 1.25
Smilax	12.50 to 15.00	12.00 to 18.00	..... to 15.00	..... to 15.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	35.00 to 50.00	40.00 to 60.00	30.00 to 35.00
" " & Spren. (100 bchs.)	25.00 to 50.00	50.00 to 50.00	25.00 to 35.00	30.00 to 35.00

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10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

When writing to advertisers kindly mention HORTICULTURE.

Please mention Horticulture when writing.

Flower Market Reports

BOSTON We have to report a rather weak market this week, due as much as anything to the stormy weather and the embargo on the shipping trade thus occasioned. The condition of the railroads and express service is very irregular and unreliable. As to the various standard stocks, we note that in a general way, roses have weakened considerably since last week, but American Beauty continues scarce; carnations have braced up and bring better prices than last week. Cattleyas continue to hang fire and move very slowly. Violets are low and neither they nor any other flower got much encouragement out of Valentine's Day, which was very stormy and left the retail stores deserted. All bulbous material is very abundant, the only exception being lily of the valley, which is only in fair supply for daily needs and single trumpet narcissi which are coming in reduced quantities as compared with the past few weeks. Quality of tulips is rapidly improving. Sweet peas of the Spencer type sell better than any other of the small flower specialties. The old type of peas has a hard struggle for recognition and must soon give up the game.

BUFFALO Zero weather, lots of snow and everything to make up a good winter and these days the growers are reducing the contents of the coal bin. The sun is rarely seen in this section and the production of roses is light; in fact, the supply has been shorter than in the week previous. The bulbous stock is coming on heavier each day and prices are reasonable. Some choice Yellow Prince and Le Reine tulips are had, also freesias and poeticus narcissi. Lily of the valley, too, has been plentiful and carnations have accumulated somewhat, though the select stock has easily found an outlet. Lilies are more abundant and there are plenty of yellow narcissi, campernelles, daisies, violets and other stock. Nothing at a scarcity except American Beauties and other roses. Saturday brought on a little extra business in the violet line, though on Friday all shipments from Rhinebeck were frozen. The wholesaler is having his troubles in trains being late and the arrival of frozen stock. It is hoped the weather will moderate at an early day.

CHICAGO The principal feature of the past week is the splendid St. Valentine's Day trade, which exceeded any previous records. Orders were not generally placed far in advance so there was the added strain of uncertainty and Friday and Saturday were very busy days. Hudson River violets were shipped into this market in immense quantities, probably a million would not be an overestimate, many of them more or less unsaleable from frost and from being too old when picked. Prices ranged from 30c. up, according to quality and size of order. Add to these the hundreds of thousands of home-grown singles and it would seem there was little room for other stock. Such was not the case, however, and carnations, spring flowers, lily of the valley, orchids and Beauties all sold in quantities, while rose sales were only limited by the scarcity of stock. American Beauties have had a way all winter of being either long or short and the customer for medium lengths has to buy the long ones or do without.

NEW YORK All things considered, stormy weather and so on, the cut flower market continues remarkably good. We are more than pleased to report this as it has been too often the reverse since this erratic season came in. Roses are still on the scarce side and this fact has benefited other lines of cut flower stock to a very great extent. Bulbous material is still very abundant, but is of exceptionally good quality, and selling well with the exception of trumpet narcissi, golden spurs included, which in large quantities sell very low. Narcissus poeticus brings a better figure as a rule. Lily of the valley is in plentiful supply and selling well. Carnations are inclined to stiffen up; so are cattleyas which a few days ago were very druggy, but now are bringing normal values. There is a very large supply of Acacia pubescens—in fact, a little too much for the demand at the price demanded for it. Gardenias are selling well and greens, such as asparagus and adiantum are also in good call. The situation is really quite cheerful from the standpoint of the wholesale dealer.

PHILADELPHIA St. Valentine's week turned out all right with the exception of Friday and Saturday, which were cold and stormy and hurt sales a good deal especially on violets. The rose market was in good healthy condition. Some very [illegible] stock

(Continued on p. 2[illegible])



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DAFFODILS—$3.00 per 100; $25.00 per 1000.
VALLEY—Special, $4.00 per 100; Extra, $3.00 per 100.
DAGGER FERNS—$2.50. Fancy, $3.00.
RIBBONS AND SUPPLIES: Many new patterns in Exclusive Ribbons. If you have not received one of our new catalogues write us and we will send you a copy.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON February 19			ST. LOUIS February 2			PHILA. February 16		
Roses									
Am. Beauty, Special	50.00	to	75.00	35.00	to	50.00	60.00	to	75.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	40.00	to	50.00
" " No. 1	10.00	to	15.00	10.00	to	12.50	6.00	to	25.00
Killarney, Extra	6.00	to	10.00	8.00	to	10.00	6.00	to	12.00
" Ordinary	3.00	to	6.00	4.00	to	6.00	3.00	to	5.00
Richmond, Hillingdon, Extra	6.00	to	10.00	8.00	to	10.00	8.00	to	15.00
" " Ordinary	3.00	to	6.00	4.00	to	6.00	4.00	to	6.00
Maryland, Ward, Taft, Sunburst, Extra	8.00	to	10.00	8.00	to	10.00	6.00	to	12.00
" " " Ordinary	.00	to	6.00	4.00	to	6.00	4.00	to	5.00
Russell, Shawyer	10.00	to	20.00	.....	to	.....	6.00	to	25.00
Carnations, Fancy	3.00	to	4.00	2.00	to	3.00	4.00	to	5.00
" Ordinary	2.00	to	3.00	1.00	to	1.50	2.00	to	3.00
Cattleyas	25.00	to	35.00	40.00	to	50.00	30.00	to	50.00
Lilies, Longiflorum	10.00	to	12.00	10.00	to	12.00	12.00	to	15.00
Callas	.....	to	12.00	10.00	to	12.00	10.00	to	15.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
Freesias	1.00	to	2.00	2.00	to	3.00	2.00	to	4.00
Daffodils	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
Tulips	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Violets	.35	to	.50	.25	to	.60	.25	to	.75
Mignonette	4.00	to	6.00	4.00	to	6.00	3.00	to	6.00
Daisies	. . . .	to	2.00	. . . .	to	. . . .	2.00	to	3.00
Sweet Peas	.75	to	2.00	.50	to	.60	.50	to	2.00
Gardenias	25.00	to	35.00	.....	to	.....	8.00	to	25.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	.....	to	15.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Sprn. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	35.00	to	50.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 14 1914	First Half of Week beginning Feb. 16 1914
American Beauty, Special	50.00 to 60.00	40.00 to 60.00
" " Fancy and Extra	30.00 to 40.00	20.00 to 40.00
" " No. 1	10.00 to 20.00	5.00 to 10.00
Killarney, Extra	8.00 to 12.00	8.00 to 12.00
" Ordinary	3.00 to 8.00	3.00 to 6.00
Richmond, Hillingdon, Extra	8.00 to 12.00	5.00 to 10.00
" " Ordinary	3.00 to 6.00	2.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 15.00	8.00 to 15.00
" " " Ordinary	4.00 to 8.00	3.00 to 8.00
Russell, Shawyer	4.00 to 15.00	8.00 to 12.00
Carnations, Fancy Grade	3.00 to 5.00	3.00 to 5.00
" Ordinary	2.00 to 3.00	2.00 to 3.00

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 277)

Radiance, Killarney Queen and Double White Killarney, were available and crops generally were large and better. There was a slight increase in arrivals of American Beauty, but nothing enough to make any marked effect. The carnation market also in excellent shape. Demand keeps up with supply very satisfactorily and the quality is very high. Orchids are holding their new pace very well and there are none now to be had at sacrifice prices. Sweet peas plentiful and good. Daffodils have dropped a notch in price and at present are very reasonable indeed for greehouse grown stock. There are not so many Roman hyacinths around but tulips, freesias and other bulbous items are very much in evidence.

ST. LOUIS The business done the last week, which included St. Valentine's day was quite large. The demand was large and especially on first grade stock for which the wholesalers had no trouble in cleaning up every day. Roses are not too many yet and there is some trouble in filling orders. Carnations are plentiful. All the leading varieties have advanced a little in price. Violets had one great demand all during last week and the supply was short by several thousand. Sweet peas also came in for an extra demand, as well as bulb stock. In this the market had a good supply. There was a good demand for fancy tulips, lily of the valley and lilies.

WASHINGTON The St. Valentine Day's business this year was exceptionally good and very welcome in view of the slow business which has prevailed for several weeks. Considerable difficulty was experienced, however, in making deliveries because of the heavy snow storm. A marked change in the temperature was instrumental in shortening up the supply of stock of all varieties, especially red flowers, with the result that prices in many instances soared to lofty heights. Roses that had previously sold at $4 per hundred reached as high as $10. American Beauty roses were practically off the market and those to be had were poor in quality. Red carnations sold out quickly bringing $6, while the other colors moved very well at $4 and $4.50. Gardenias were good in quantity but not overplentiful and orchids were about the reverse, scarce and quality poor. The bulk of the business was done in violets and sweet peas which cleaned up well. Monday found the market a bit draggy as far as sales were concerned although there was no overstock of flowers except of the bulbous type.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 14 1914	First Half of Week beginning Feb. 16 1914
Cattleyas	20.00 to 60.00	20.00 to 60.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Callas	10.00 to 12.00	10.00 to 12.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	..... to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 3.00	1.50 to 2.00
Tulips	2.00 to 3.00	2.00 to 3.00
Violets	.50 to .75	.50 to .75
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	4.00 to 12.00	4.00 to 12.00
Gardenias	12.00 to 25.00	15.00 to 25.00
Lilacs (per bunch)	..... to 1.50	..... to 1.50
Adiantum	.50 to .75	.75 to 1.00
Smilax	6.00 to 12.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	25.00 to 35.00

PERSONAL.

L. J. Kervan, Sr., of New York, left last week for his annual visit to Florida, where he will remain until May.

Thomas Sakelos, proprietor of "The Olympia Florist" in the Bronx district of New York, a prosperous Greek florist, is boomed as a wrestler of unusual ability. The wrestling instructor at the O. A. C. declares him to be practically invincible.

Robert A. Mitchell, Manchester, Mass., has accepted a position as instructor at the Essex County, Mass., Agricultural School. This being a vocational school it is their practice to select practical men as teachers in preference to college men.

Harry F. Smith, formerly on the Ames estate, North Easton, Mass., under W. N. Craig, and for the past two years foreman on the estate of Mr. Percival Roberts at Narberth, Pa., succeeds Sabin Bolton as superintendent of that place. Mr. Bolton, who has filled that position for the past three years now goes as superintendent on the Heinze estate at Pittsburgh, Pa.

Police of Waltham, Mass., are trying to find the home and relatives of George Pulsifer, aged 50, a traveling salesman for a New York nursery concern, who was stricken with heart failure and died while running to catch a street car, February 14. For some days Pulsifer had been staying with Nathaniel Stearns on Trapelo road. He left the house at 8 o'clock to take a Lexington and Boston car. Seeing the car approaching the stop, he started to run. Before he had gone 50 feet he fell and was dead when bystanders reached him. Beyond the fact that he came from Maine no one knows anything of his history.

VISITORS' REGISTER.

Chicago—S. S. Skidelsky, Philadelphia; E. S. Miller, Wading River, N. Y.; Robt. Karlstrom, representing W. A. Manda, So. Orange, N. J.; J. J. Karins, representing H. A. Dreer, Philadelphia, Pa.

Philadelphia—Ralph M. Ward, N. Y. City; Edwin A. Seidewitz, Baltimore, Md.; William Swayne, Kennett Square, Pa.; Antoine Leuthy, Roslindale, Mass.; L. W. Wheeler, Gilroy, Cal.; Wallace R. Pierson, Cromwell, Conn.; Robert Simpson, Clifton, N. J.; Robert Pyle, Conard & Jones Co., West Grove, Pa.; Harry O. May, Summit,

St. Louis—J. J. Karins, representing H. A. Dreer, Phila., Pa., F. Lautenschlager, representing Kroeschell Bros. Co., Chicago; Harry Morgan, representing Lord & Burnham Co., Irvington, N. Y.; George Struck, of Knight & Struck, New York; Jos. E. Rolker, of August Rolker & Sons, New York.

Boston—Robert Shock, representing M. Rice & Co., Philadelphia, Pa.; Louis Sander, St. Albans, London, Eng.; D. Cameron, representing F. Sander & Sons, St. Albans, Eng. and Bruges, Belgium; F. E. Conine, Stratford, Conn.; Winfried Rolker, New York City; Louis Hanfling, with Russin & Hanfling, New York; John W. Gibson, Newport, R. I.; Chas. Parker, with Carl Jurgens, Newport, R. I.

We have just had the pleasure of perusing the first issue of the Orenco Herald, a new monthly paper published by the Oregon Nursery Company, who were the founders of Orenco and who have developed it into a prosperous and happy community. The company has about 1200 acres under cultivation.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
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ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
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AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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A. Leuthy & Co., Roslindale, Mass.
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Godfrey Aschmann, Philadelphia, Pa.
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McHutchison & Co., New York.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York.
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Bay Trees and Box Trees, all sizes and prices. List on application.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
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BEGONIAS

Henry A. Dreer, Inc., Philadelphia, Pa.
Tuberous Rooted Begonias.
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BLACKBERRIES

J. T. Lovett, Little Silver, N. J.
The Joy Blackberry.

BOILERS

Kroeschell Bros. Co., Chicago.
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King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
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Hitchings & Co., New York City.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
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BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Freesia and Lilium Harrisii Bulbs.
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Michell's Seed House, Philadelphia, Pa.
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Ralph M. Ward & Co., New York City.
Horseshoe Bulbology.
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John Lewis Childs, Flowerfield, L. I., N. Y.
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A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
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August Rolker & Sons, New York City.
Holland and Japan Bulbs.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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O. V. Zangen, Hoboken, N. J.
Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CALADIUMS

Henry A. Dreer, Inc., Philadelphia, Pa.
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CANES

Wm. Elliott & Sons, New York City.
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Arthur T. Boddington, New York City.
Boddington's Quality Cannas.
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Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.

108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

Patten & Co., Tewksbury, Mass.
Princess Dagmar.
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F. Dorner & Sons Co., Lafayette, Ind.
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Carnation Mrs. B. P. Cheney.
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A. Begerow, Newark, N. J.
Carnation Prince Edward.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Novelties for 1914.
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A. N. Pierson, Inc., Cromwell, Conn.
Chrysanthemum Improved Golden Chadwick.
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Chas. H. Totty, Madison, N. J.
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COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

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Alphano Humus Fertilizer.
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Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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J. E. Felthousen, Schenectady, N. Y.
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GERANIUMS

	Per 1000
1000 Beauty of Poitevine, 2-in	$20.00
3000 S. A. Nutt, 2-in	18.00
3000 S. A. Nutt, 3-in	27.50
1000 La Favorite, 3-in	26.00

250 at 1000 rates. This is fine stock but we must have room. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
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Gladioli, Large Bulbs for Forcing: Augusta, America, Shakespeare, Scarsdale, Columbia, Wezinscott, Planting Stock of B. Hulot, and Scarsdale. Write for prices. GEO. J. JOERG, Gladioli Grower, New Hyde Park, L. I., N. Y.

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLASS CUTTERS

Smith & Hemenway Co., New York City.
Red Devil Glass Cutter.
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Bird Steel-frame Greenhouse Co., Inc.,
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Hitchings & Co., New York City.

Lord & Burnham Co., New York City.

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J. G. Esler, Saddle River, N. J.
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Michigan Cut Flower Exchange, Detroit, Mich.
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HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HART'S HANDY HANDLES

Geo. B. Hart, Rochester, N. Y.
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Aphis Punk and Nikoteen.
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R. P. Palethorpe Co., Inc., Clarksville, Tenn.
Nicoticide, the Insecticide.
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Eastern Chemical Co., Boston, Mass.
Imp Soap Spray.
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Tobacco Stems, $1.00 hundred pounds. U. CUTLER RYERSON, 108 3d Ave., Newark, N. J.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
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LILY BULBS

Chas. Schwake & Co., New York City.
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Cold Storage Lily of the Valley.
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Fottler, Fiske, Rawson Co., Boston, Mass.

In writing to Advertisers kindly mention Horticulture

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National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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Old Town Nurseries, M. P. Haendler, Prop., South Natick, Mass.
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PRIVET, Spirea, Barberry and Hydrangeas.—Amoor River North, 12 to 18 inch, $20 per 1,000; 18 to 24 inch, $25; cuttings, $1.50 per 1,000. Spirea Van Houtte, 18 to 24 inch., $3 per 100. Thunberg's Barberry, 8 to 12 inch bran., $2 per 100; 12 to 18 inch, $4; 18 to 24 inch, heavy, $6 per 100; 24 to 30 inch, $8.50. Amoor River Evergreen, 12 to 18 inch, $12.50 per 1,000; 18 to 24 inch, $16.50. Hydrangea P. G., $3.50 per 100. VALDESIAN NURSERIES, Bostic, N. C.

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R. & J. Farquhar & Co., Boston, Mass.
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Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
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Otto Heinecken, New York City.
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PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS
Kroeschell Bros. Co., Chicago.
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McHutchison & Co., New York City.
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Otto Heinecken, New York.
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PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
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August Rolker & Sons, New York City.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
For page see List of Advertisers.

California Seed Growers' Association, San Jose, Cal.
For page see List of Advertisers.

Brasian Seed Growers Co., San Jose, Cal.

SEEDS
Joseph Breck & Sons, Boston, Mass.
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Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
Asparagus Plumosus Nanus and Aster Seed.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Flower Seeds for Florists.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
For page see List of Advertisers.

Arthur T. Boddington, New York
For page see List of Advertisers.

S. Bryson Ayres Co., Independence, Mo.
Sweet Peas.
For page see List of Advertisers.

Loechner & Co., New York City.
For page see List of Advertisers.

T. J. Grey Co., Boston, Mass.
For page see List of Advertisers.

Albert Dickinson Co., Minneapolis-Chicago.
Lawn Grass.
The Right Seeds in the Right Place.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York.
Garden Seed.
For page see List of Advertisers.

O. V. Zangen, Hoboken, N. J.
For page see List of Advertisers.

Ant. C. Zvolanek, Lompoc, Cal.
Commercial Sweet Pea Seed.
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J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
For page see List of Advertisers.

Burnett Bros., New York City.
Seasonable Seeds.
For page see List of Advertisers.

J. J. Wilson Seed Co., Newark, N. J.
Flower Seeds Specialties for Florists.
For page see List of Advertisers.

Stamford Seed & Nursery Co., Stamford, Conn.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
For page see List of Advertisers.

For List of Advertisers See Page 255

SEEDS—Continued

Fottler, Fiske, Rawson Co., Boston, Mass.

Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SHAMROCKS

Peter Henderson & Co., New York City. Irish Shamrocks.

SILKALINE

John C. Meyer Thread Co., Lowell, Mass. Meyer's Green "Silkaline."

SNAPDRAGONS

H. Huebner, Groton, Mass. New Winter-Flowering.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

SWEET PEAS

W. Atlee Burpee & Co., Philadelphia, Pa. Spencer Type of Sweet Peas.

VEGETABLE PLANTS

TOMATOES.

5000 Comet Forceing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
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Welch Bros Co., 226 Devonshire St.
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WHOLESALE FLORISTS

Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
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Chicago

Peter Reinberg, 37 Randolph St.
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Chicago Carnation Co., 30 E. Randolph St.
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Poehlmann Bros. Co., Morton Grove, Ill.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
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New York

H. E. Froment, 57 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 49 West 28th St., N. Y.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 41 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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B. S. Slinn, Jr., 55 and 57 West 26th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers in This Issue

ACACIA.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
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COLDWELL LAWN MOWERS.
Coldwell Lawn Mower Co., Newburgh, N. Y.
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CHRYSANTHEMUMS ROOTED CUTTINGS.
Wood Bros., Fishkill, N. Y.
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DIRT BANDS AND PAPER POTS.
F. W. Rochelle & Sons, Chester, N. J.
For page see List of Advertisers.

FLORISTS' SUPPLIES AND WIRE DESIGNS.
Komada Bros., Philadelphia, Pa.
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FLOWER SEEDS FOR THE FLORIST.
R. & J. Farquhar & Co., Boston, Mass.
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POTASH.
German Kali Works, Inc., New York City.
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QUALITY SWEET PEA SEEDS.
Stamford Seed & Nursery Co., Stamford Conn.
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NEW CROP ASTER SEED.
Peter Henderson & Co., New York City.
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SCOTCH SOOT.
Stumpp & Walter Co., New York City.
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SEEDS FOR FLORISTS.
Thomas J. Grey Co., Boston, Mass.
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SNAPDRAGONS.
Leo Niessen Co., Philadelphia, Pa.
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WINTER ORCHID SWEET PEA SEED.
Ant. C. Zvolanek, Lompol, Calif.
For page see List of Advertisers.

Do You Know What You Want?

Look in the "Buyers' Directory" of this issue and you will probably find represented there somebody who can supply you. It's a good plan to look it over every week, for the weekly changes and additions are many.

SEE?

GREENHOUSE CONSTRUCTION AND HEATING.

(Continued from page 208)

that is, they are plastered and smooth finished, or pebbled, dashed or rough cast, as desired. This wall is neat and durable when properly built. The proper mixture for such walls is about 1:3:6. This is called by cement workers an ordinary mixture, that is in the proportion of one barrel of cement, three barrels of sand, and six barrels of gravel or broken stone. The cost of such walls, not including the cost of sand and gravel, which is often obtainable at the site, and usually at very little cost near the site, is about the same as the cost of double boarding with paper between. The concrete walls, of course, do not require to be painted three coats when erected, nor extra coats every two or three years thereafter. Concrete walls will not burn nor rot as wooden walls do. The best commercial houses are built with one-half inch flat iron foot pieces, one-half inch steel rafters, galvanized angle iron eaves plates, angle iron purlins, and light cypress sash bars.

The strength of this house is in the iron members, not in the wooden bars, and they are therefore not any heavier than is necessary for a good setting for the glass. 16 inches by 24 inches, glass of "A" and "B" qualities is used, and in large houses with high roofs, "B" quality is generally satisfactory.

Advantages of Large Houses.

The superstructure of iron frame greenhouses for private use and for commercial purposes is essentially the same, and the larger houses cost less per square foot to build and provide a larger cubic contents than smaller houses. It is therefore advisable for both classes that the houses be larger, and it is just as incumbent on the superintendent or gardener to convince his employer that better results can be obtained in large houses at lower cost than in small houses, as it is for the commercial man to build large for the same reason.

For private purposes where no gardener is employed, a 10 foot, 12 foot, or 16 foot house will afford considerable pleasure to the owner who has the time to work it, but such a house is only a toy to a gardener. No house should be built for a gardener's use that is of less width than 18 feet. 20 feet is better, and 25 feet and 30 feet still better. The increase in cost of these larger houses and in cost of maintenance is very little comparatively, or to put in another way, the cost for the increased floor and bench surface and increased producing ability, is much less than in smaller houses. Greenhouses 50, 60 and 80 feet wide are now being built daily all over this country for commercial purposes because our growers have at last learned that if they would compete with the leaders, they must build large.

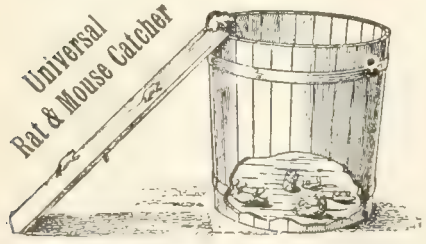
Large houses are the cheapest per square foot of surface covered and per square foot of glass. They are the lightest, and enclose the greatest volume per square foot of glass, which means better air, stability of temperature, and better growing conditions generally. In addition to this, the first cost and the operating cost of the heating system is less, and the labor of working the house less than with small greenhouses.

The Heating Apparatus.

The most important part of the greenhouse equipment is no doubt the heating apparatus. The success of the greenhouse depends much on its heating. I will, however, treat the subject but briefly.

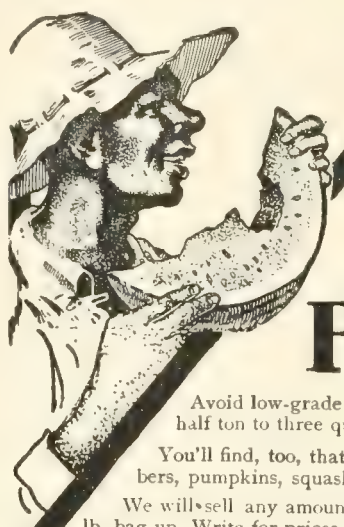
Greenhouses are warmed by radiation from hot water pipes or steam pipes. Each system has its advantages and its disadvantages. Neither system is best for all purposes, and such conditions as size of the plant and geographical location, conditions of atmosphere, etc., must be considered before a dicision is made in favor of either method. There are many types of both hot water and steam systems, but in both, the piping is constructed into coils and single lines which are hung or supported on the sides of the house under raised benches, on the sides of solid beds, or on posts or columns supporting the roof. The major portion of the radiation should be on the side walls.

(To be continued)



Cleans a building of Rats and Mice in short time, keeps it cleaned, for it is always ready for use. Made of galvanized iron, can't get out of order, lasts for years. Large number can be caught daily. Go to Catcher mornings, remove device inside, which only takes few seconds, take out dead rats and mice, replace device, it is ready for another catch. Small piece cheese is used, doing away with poisons. Catcher is 18 inches high, 10 inches diameter. When rats pass device they die, no marks left on them. Catcher is always clean. One of these Catchers set in a livery stable in Scranton, Pa., caught over 100 rats in a month. One sent prepaid to any place in United States upon receipt of $3. Catcher, 8 in. high, for mice only, prepaid $1. On account of shipping charges being prepaid, remittance is requested with order.

H. D. SWARTS,
Inventor and Manufacturer, Scranton, Pa.



To Get Profit from Melons

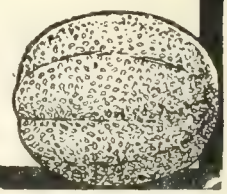
feed the soil what melons need for normal growth, prompt ripening, full sugar formation and rich flavor. These cannot be had without plenty of available

POTASH

Avoid low-grade mixtures. Supplement the compost with a half ton to three quarters of a ton, per acre, of 5-6-10 goods.

You'll find, too, that Potash Pays, when used as above on cucumbers, pumpkins, squashes.

We will sell any amount of Potash from one 200-lb. bag up. Write for prices and free books of formulas.



GERMAN KALI WORKS, Inc., 42 Broadway, New York
Chicago, McCormick Block — Savannah Bank & Trust Bldg.
New Orleans, Whitney Central Bank Bldg.
San Francisco, 25 California St. — Atlanta, Empire Bldg.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

4 Tons More. 11 Days Earlier

(Canning tomatoes, per acre, at the Indiana Experiment Station, 1912; see Bulletin 165), from plants raised in **DIRT BANDS** (substitutes for clay pots), over twice transplanted plants.

Dirt Bands, 2, 2½, 3, 4, 5 and 6 inch, from 40c. to $1.50 per 1000. Samples of all sizes and price list free.

Square Paper Pots 2, 2½, 3, 4 and 5 inch, from 75c. to $2.50 per 1000. Price list free.

Investigate! Investigate! Investigate!

F. W. ROCHELLE & SONS.
32 Main St., Chester, New Jersey.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

The Pulverized Manure Co., 31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | **Experimental Greenhouses, Catonsville, Md.** | **Experimental Farm, Farmingdale, N. J.**

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:—

"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:—

"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—

"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass, writes:—

"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart $3.00 Per Gallon

(Special prices on large quantities).

For Sale by Seedsmen.

We Manufacture
APHINE, FUNGINE, SCALINE, and NIKOTIANA.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK



IMP. SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle. Most Effective Results.

1 GAL., $1.65 5 GAL., $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.

CLARKSVILLE, TENN.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

FERTILIZERS

Tankage, $2.00; Sheep, $1.75; Bone, $2.00; Ashes, $1.50; Phosphate, $2.00; Limestone, $1.00; Blood, $4.00; Nitrate Soda, $4.00; Sulphate Potash, $3.50 per 100 lbs. Smallest quantity sold 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N.Y.

In writing to Advertisers kindly mention Horticulture

GREENHOUSES BUILDING OR CONTEMPLATED.

East Lawn, Mich.—John Grow, one house.

Portland, Mich.—Martin sisters, one house.

Rugby, N. D.—N. P. Lindberg, one house.

McHenry, Ill.—John F. Miller, two houses.

S. Portland, Me.—Niles Nelson, rebuilding.

Mt. Carmel, Pa.—H. K. Erdman & Son, enlarging.

Danielson, Conn.—Beeney & Myers, vegetable house.

Newport, R. I.—Arthur Curtiss James, conservatory.

Binghamton, N. Y.—Michael Fusco, Maple street, one house.

Mercerburg, Pa.—Rush C. Myers, carnation house, 30x100.

Memphis, Tenn.—The Tri-State Floral Company, one 200 ft. house.

Norwood, Pa.—Macaw Bros., three Lord & Burnham houses, each 35x150.

Philadelphia, Pa.—William Beyer, Germantown and Chilton avenues, house, 22x92.

Terre Haute, Ind.—Wm. W. Arnold, Barton avenue and Oak street, one house, 18x100.

Owatonna, Minn.—Clinton Falls Nursery Company, three Moninger houses, 27x200.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—A well recommended greenhouse man, March 1. $45 and board. Address R. S.-100, care HORTICULTURE.

SITUATIONS WANTED

Head Gardener

Thoroughly capable man for every department of gentleman's place, desires engagement. Well up in greenhouse and outside work. Specialty: fruit under glass, carnations, roses and 'mums; or as manager of commercial place where results count. Scotch; age 40; married, no family. Address, COMPETENT, care of HORTICULTURE.

SITUATION WANTED by gardener, 29, single; life experience, all branches; strictly honest and steady, not afraid of work. A-1 references. Private place wanted. CRAGG, 152 East 7th St., Erie, Penna.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

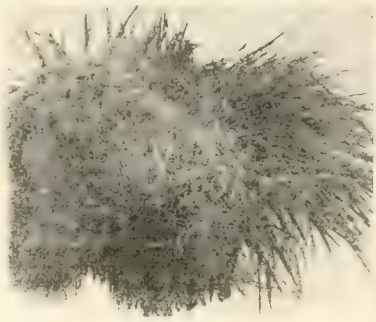
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

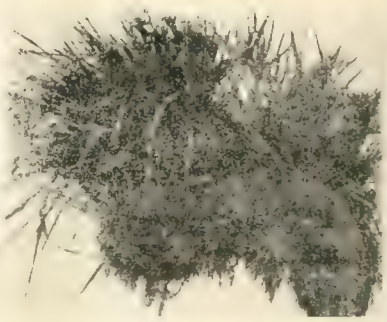
HILFINGER BROS. Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY—Long Distance and TradeExport



Side View of Sod showing four inches of roots. Note the vigor of the grass blades.



Bottom View of Sod showing how compact and fibrous the roots grew.

ALPHANO HUMUS
Made This Sod in Eight Weeks

BUT the fact that such thick sod was grown in eight weeks is only half the story. The other half is that it was grown on regular white sea sand soil made by mixing half such sand with half Alphano Humus. It was a test case made by the management of one of the biggest Golf Clubs in the country. Various mixtures of fertilizers, wood soils, top soils and animal manures were used in an endeavor to put Alphano Humus out of the running. Alphano Humus not only grew the best grass and grew it quickest; but it continued to keep thick and green long after the others had yellowed up and grown spindley. Based on this result several carloads were ordered.

If Alphano Humus will give results like this when mixed with absolutely sterile white sand, think what it will do for that lawn of yours with its half way good soil.

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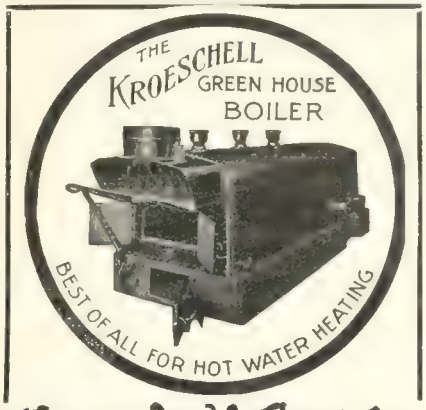


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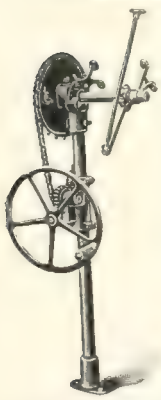


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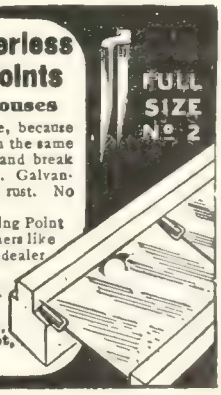
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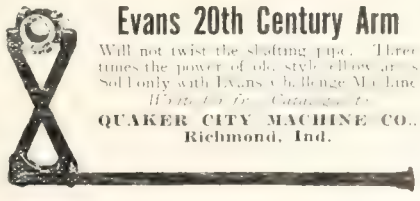
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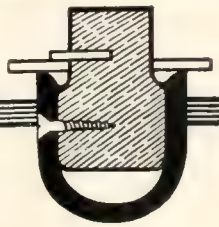
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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bedding Geraniums

Any spare moments and available bench space can now be used in getting geraniums potted up. Geraniums from now until May do a great deal of growing and plants of most varieties seemingly small and puny, may yet be grown into acceptable size and vigor by proper treatment. Some thoroughly decomposed manure, or that from a spent hotbed, may form one-third of the compost used. Add a 4-inch potful of fine bone to three bushels of compost. Use clean pots. Any winter batches of cuttings in need of potting should be attended to before they become potbound. Give these a raised bench where they can enjoy a little bottom heat and they will quickly take hold. When first potted they can stand pot to pot, but they will soon need some spacing, as growth is now rapid. Do not leave the flower trusses on the plants for a while yet. Allow a month before sales time for the trusses to develop. The plants cannot have too light a house. Give plenty of ventilation on every possible opportunity. They should dry out well between waterings.

Begonias, Lorraine and Cincinnati

The first two or three lots of leaf cuttings are now in 2½-inch pots; those placed in the sand after the New Year are nearly all ready to be potted. All young begonias of this time in common need shade against bright sunlight. While they must never dry out, yet they are most easily destroyed by over watering. The average temperature for the newly-rooted or potted small plants should not be below 65 degrees at night, a trifle higher being better. When established, 5 degrees lower will do nicely. No manure should be used in the soil in the first two transplantings; a very sandy and porous soil, loam, sod or leaf mold suits rooted cuttings the best. In the soil, for later shifts, some old, well rotted manure is intermixed, in greatest quantity at the last transplanting in August or September. But the one point most important of all is care in watering, especially during periods of prolonged rainy, misty or gloomy weather. To insure bushiness and symmetrical shape of plants judicious pinching in is resorted to and begins before the second shift becomes necessary. Give them some spacing every little while to let the air around the plants.

Bouvardias

Now is a good time to put in a batch of bouvardia cuttings. Root cuttings can be used instead of young top growth. Some or all of the strong roots of old plants are cut up into small pieces of about half an inch in length. These are strewn upon the propagating sand and slightly covered with sand, kept moist, and a trifle close. A light sandy soil, instead of clean sand may be used with equally good success if only kept warm and moist. After the appearance of the growth, top sashes, or anything used in covering the bed are not necessary if steady heat can be maintained without them. It must be removed and no shading is needed while the cuttings are in the sand. When they have made requisite size for being potted up, which should be a good half-finger's length in height, they are then carefully taken out, planted singly into 2½-inch pots or several together in 3-inch pots if extra good and bushy specimens are wanted for next season's pot plant trade. They remain in these pots until planted out in a favorable spot in the garden at the close of May. The bouvardia roots very slowly and unsatisfactory from the young top growth and in ordinary practice that is not considered a practical method of propagating this plant. By giving the plants a warm house, light in plenty and frequent cutting back, they will have grown into fine, nicely branched plants with rootballs firm enough for lifting and final potting up from the open ground in the early fall.

Lily of the Valley for Easter

There is always fine demand for either pots or pans of lily of the valley at Easter. So select some of the very best Berlin pips from cold storage and plant in pans, any size from a 5-inch pan up to an 8-inch pan or pot. A good potting mixture is equal parts of soil, sand and moss. Put as many pips as can comfortably go into each receptacle. Place these pans where there is a temperature of from 55 to 58 at night and about 20 degrees higher during bright days. When they have drawn up enough they can have more light. It generally takes from 5 to 6 weeks in the above temperature to bring them into full flower. Do not let them become dry and give ventilation with care as they do not like cold draughts. Should it appear that they are going to flower a little too early they can be retarded in a cool and shaded house.

Propagating Violets

Violets will now be showing abundance of side growth which makes fine thrifty material for propagation. None but the healthiest and sturdiest cuttings should be taken for the future stock. Propagate in the coolest end of the propagation bench and they can be boxed up when rooted or placed in flats with some crock on the bottom covered with about an inch of soil and then filled up with clean sand. Given some shade and any necessary watering and moisture they will soon root, when they can be pricked out into other flats, using a compost of fibrous loam two parts, leaf mold two parts, rotted cow manure one part, and same sand. In order to keep them sturdy they should have plenty of ventilation. Be very careful when watering not to let them get in a soaked condition. Give an overhead sprinkling on bright days, now and then a spraying with tobacco water and a syringing with it from underneath so as to reach the lower surface of the leaves. Keep them in a temperature not higher than 45 degrees during the night.

Shading Palms and Ferns

Palms and ferns will now require some shading to protect them from getting burnt and faded. Do not have it too heavy for the present, but just enough to break the direct rays of the sun. A good shading can be made with naphtha and white lead.

Mr. Farrell's next notes will be on the following: Dahlias; Carnations; Gardenias; Lilies for Easter; Orchids. Seeds

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Bug catching

"News Letter No. 1" is the first issue of a monthly series to be issued by the Federal Horticultural Board on topics connected with the enforcement of the Federal Plant Quarantine Act. This issue concerns itself with the records of the insect pests and fungous diseases intercepted during the past year on imported nursery and florists' stock, as reported by State Inspectors or the Inspection Service of the Board. The lists as given in this first issue are in two separate series, one arranged as reported by States and the other by countries of origin of the pests enumerated. It would seem from this document that certain of the States are much more diligent than others in detecting objectionable insects on stock received within their borders. For instance, the District of Columbia intercepted 52 instances of infestation, California 44 and Massachusetts 27, whereas all the other States stand very low on the list, New York reporting only 3, one of which, however, was the dreaded gypsy moth—the only case of its importation reported for the year. Belgium and Holland furnished the greater number of infested plants.

Problems in finance and credit

Should our clubs and societies—especially those in which the commercial element is well represented—take up the matter of business credits as an issue, and is there a practical way in which these organizations can help to promote and bring about a higher standard of business ethics than now prevails? This query will be variously answered, no doubt, but as to the need for improvement in this direction there can be but one conclusion. An approximate summing up of the business reverses as reported from time to time in the columns of the florist trade papers would seem to show that, despite the greater precautions said to be exercised and the variously devised restrictions on reckless credit giving, the sum total of losses through failures is today fully as large as it has been at any time in the past and the amount of uncertain and uncollectable accounts on the books of the average dealer shows no shrinkage as the seasons pass along. Whether the crash comes in a concern whose unreliability has long been common talk or from one of reputed financial ability and unsuspected until the bolt has fallen, when the facts come out we often find listed with the heavy losers parties who have been among the most vehement remonstrants against the extending of unguarded credit.

Conditions to be reckoned with

It is readily realized that this fact as above stated may be in a large measure due to the great inherent weakness of the plant and flower growers' business—the perishable nature and ephemeral value of its products which repeatedly brings the producer or dealer face to face with conditions that impel even the most conservative, either openly or covertly to ignore all rules of prudence and jump into the game of chance, unloading goods on a doubtful customer, as an alternative preferable to seeing the stock go to waste. Like the man "on the water wagon" it is, as often as otherwise, simply a question of being confronted with a temptation sufficiently great which decides when he shall tumble off the wagon. And the same fleeting value of the goods which makes him anxious to unload must again be reckoned with when the seller seeks to enforce payment of his account and finds that there is nothing of any value on which to levy. In a business so beset with pitfalls into which the wary as well as the unwary tumble and retumble "The best laid schemes o' mice and men, Gang aft agley," and it is plain that the rules and methods which make for safety and financial assurance in other forms of mercantile enterprise will here often fall short of accomplishing their purpose. The remedy which will effectually safeguard the interests of the horticultural trades cannot be devised in an hour or a day and, as before said, there may be divergent views as to whether the trade organizations as at present constituted are capable of giving any practical assistance. Yet the subject is a vital one and well worthy of a place among the serious problems awaiting thoughtful attention.

A. M. HERR'S REFLECTIONS ON THE RECENT CARNATION MEETING.

President Brown, like those who preceded him, spent a great deal of time and gray matter to bring before the Society, through his address, some suggestions for improvement of both the Society and the flower it represents, and like those of all of his predecessors, his suggestions were reported good and at some time and some day they will be acted upon and worked out. There is this consolation for our presidents past and future, and that is, "A good thought never dies." It may lie dormant for a number of years, but eventually it will bear fruit. Take our own Club, for an example; we have always been good florists, but we lay dormant until we organized and now we are up and doing.

His remarks on packing carnations are right up to date, and it is up to us as carnation growers to produce blooms that will warrant this extra care and expense in packing, and then it will only be a matter of time until the carnation is pushed forward as a cut flower in a manner that we scarcely dream of today. Having good flowers to pack, handle them the same as roses, laying them in the box individually, so that they do not crush or bruise, and pack 50 to 100 to a box. Eighty per cent of the cut of The Cottage Gardens is handled in this way; the name of the variety is placed on the box, also the number the box contains and the name of the firm. These boxes are sent into the wholesale houses and never unpacked there. The retailer comes in, selects what he wants from the label on the box and takes them direct to his store, where they are unpacked with the care a good flower deserves. The consequence is that the flowers reach the consumer in first-class condition and give value for value received, a thing impossible where the flowers are consigned in bunches, thrown around like old shoes, as they often are, both in the wholesale and retail establishments. Of course when the grower gets $2 per 1,000 for them and the consumer gets a bunch of 25 for a quarter, they are giving value for value received, but who of us wants this condition to represent the carnation trade?

Joe Hill's paper, boiled down, gives us an average cut fifteen flowers to a plant and the cost of producing those fifteen flowers, from the cutting to the plant thrown out in the following summer, as 23 cts. per plant and the space occupied by that plant as ¾ of a square foot, this space allowing for walks and all unused room in the house. These figures are very valuable for comparison on your own place, but you must remember that the Hill establishment is right up to date with expense in the way of construction and maintenance that most of us do not have. Some of us might cut the cost per plant into two and the most of us can cut the number of blooms produced per plant into two and the quality of bloom into three when compared with the Hill establishment.

Pyfer's paper on carrying carnations over into the second year does not apply to this neck of the woods. It applies to some sections fairly well, but taking a series of five years the man who tries it here is going to lose out every time.

President Brown brought out another point in Philadelphia a week after the Cleveland meeting and that was that the average price for carnations for a period of seven years from The Cottage Gardens was 3¼ cents per flower, which certainly is not a high figure when we consider the kind of flowers they produce. In England the varieties we grow for forcing do not go below six cents and often reach fifteen. There is no reason why we should not do as well.

The Exhibition.—Right here is where neither the trade papers nor myself can give you any information, you simply have to be on the ground and see for yourself.

In the reds or scarlets there was nothing could anywhere near touch Beacon. In the light pink tint Alice seemed to be one to keep watching, although the others averaged up good. In the Gloriosa type Alice Coombs looked a winner. In the dark pink, Georgeous overtopped them all. In the whites there was, of course, nothing but Matchless, in crimson Princess Dagmar and in yellow Yellow Prince. The two pinks deserve a little more mention as they are badly needed. Philadelphia took all the laurels and deservedly so. Mr. Brown, the originator, and Mr. Breitmeyer, the grower of this variety, both are very enthusiastic over it and Mr. Breitmeyer is the last man to get enthusiastic over anything that is not up to the mark.

Mrs. C. E. Akehurst I happen to know from its babyhood up to its present debutante age and feel safe in predicting that it is going to be the commercial pink in its class, which is enough different in color from Philadelphia so that the two do not conflict very much. Another thing I am going to predict for Mrs. Akehurst is that it will pretty nearly double the Hill estimate of blooms per plant in the hands of any ordinary good grower.

As previously said the only way to get an idea of a flower is to see it and the only way to see the real good ones is to go to Buffalo next January.

The Meeting.—This was representative of the carnation world, most all the prominent growers being there, and I want to say right here that you men who make your living from carnations could not have expended $50 of your money to any better advantage than to have attended this Cleveland show and meeting. You may think that you get the benefit through the trade papers without the expense. They do their part nobly, but let me tell you that for your own welfare you had better loosen up a bit, join the society that represents the flower you grow and attend its meetings. It is being there, going over and over the show, mingling with the men who grow these show flowers, that fills your subconscious mind with carnation knowledge which it is impossible to obtain through any second-hand manner such as the trade papers or a talk like this one.

Next year it is in Buffalo. Make up your mind right now to go and then for your own sake don't say at the last minute "I can not go," "I have too much to do." If you do not stop this habit of having so much to do that you can never go anywhere you will turn into a perpetual grind until you lie down to die and then you will worry as to how the work will get done without you and have no rest even on your death bed.

THE BEST TREE FOR THE WEST.

Editor HORTICULTURE:

We are often asked which are the best trees for the country west of the Missouri river. As we note that your paper now has quite a circulation in this region, I send these notes. The Norway Poplar never saw Norway but was found growing among the Norway farmers of central Minnesota. That prince of horticulturists, Prof. Green, first called my attention to it. I got some cuttings and the first year from them I got quite a lot of trees eight and nine feet tall which I exhibited before the Nebraska and Minnesota Horticulturist Societies. For the first year or two it resembles the Carolina. Its origin, like that of the latter, is shrouded in mystery. It seems to belong to the great cottonwood family. If so it is of the male species for it sheds no cotton. It is hardy in Manitoba where the Carolina cannot live. Even here the Carolina can only live to be fifteen or twenty years old. When it begins to die it has a very ragged appearance. No one knows how long the Norway will live. One man in southern Minnesota sawed over 200,000 feet of lumber from it. I have purposely left one of each kind on a very rich ground about 10 feet apart. The Carolina has a very rough bark. The Norway has a smooth bark, something like the wild woods poplar. The Norway is two years younger than the other, and is a third larger. There is a growing demand for it for excelsior and lumber. It is a beautiful tree; the leaves are very large and the trunk is straight. It does not waste itself in side branches. It is a ravenous breeder. It is well adapted to rich grounds subject to overflow, though it does well on high ground.

C. S. HARRISON, Pres.,
Nebraska Park and Forest Society.

COVER ILLUSTRATION.

The beautiful seaside estate of Col. H. E. Converse at Marion, Mass., presided over by Superintendent D. F. Roy, is rich in fine specimen hollies, one of which is portrayed in the accompanying picture. At the time the photograph was taken it measured 2 feet 4 inches in circumference, two feet from the base. A number of its limbs are 2 feet in circumference. The tree's spread is 30 feet and its height 28 feet. It is estimated to have long passed the century mark in age. There are several other holly trees in the group that will measure up to 3 feet circumference of trunk, but they do not have a spread of over 22 feet.

"I enjoy HORTICULTURE very much. It contains valuable information to the profession."

N. J. R. K.

Clubs and Societies

ILLINOIS STATE FLORISTS' ASSOCIATION.

The time for our Annual Meeting this year is March 10-11, only about two weeks from now, at Danville, Ill., which city is centrally located, and easy of access. Being so near the Indiana line, we have invited the Indiana State Florists' Society to meet with us and they have accepted. So we expect a large and interesting meeting. Ship exhibits to W. J. Anker, Danville, Ill., and they will be properly staged.

Following is the program:

Opening Session, Tuesday, March 10 (2 o'clock)—Introductory Remarks, H. E. Smith, President Danville Florists' Club; Address of Welcome, Mayor Lewman; Response and Welcome to the Indiana Florists' Society, A. C. Kohlbrand, Chicago; Response, W. W. Coles, Kokomo, Ind.; President's Address, Chas. Loveridge, Peoria, Ill.; Report of Secretary, J. F. Ammann, Edwardsville, Ill.; Report of Treasurer, F. L. Washburn, Bloomington, Ill.; Unfinished Business; New Business; Public Exhibition; Remarks by Visiting Indiana Florists; General Discussion; Nomination and Election of Officers; Adjournment.

The annual banquet will be served at the Plaza Hotel, Danville, at 8 p. m.

Wednesday, March 11, 1914—All aboard at 10 a. m. for the special cars to visit the experimental station at Urbana. By courtesy of the Danville Florists' Club.

Public Exhibition—The exhibition of Cut Flowers and Plants will be open to the citizens of Danville, and all are invited to attend same in the Armory, from 7 p. m. to 10 p. m., Tuesday, March 10, and from 2 p. m. to 10 p. m., Wednesday, March 11.

Official Badge for this meeting, The Bacon Carnation.

J. F. AMMANN, Secy.

Edwardsville, Ind.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of the Nassau County Horticultural Society was held at Glen Cove, Wednesday, Feb. 11. It was voted to withdraw from the New York State Federation of Floral Clubs. Chas. H. Totty was a visitor and spoke on the Spring Flower Show to be held in New York, and also offered the Wells-Totty gold, silver and bronze medals for competition at the Glen Cove Fall Show for two blooms of the new pink chrysanthemum, "Neudon." Andrew Wilson, of Millburn, N. J., also offered a special prize of $25 for the Fall Show.

Awards were made as follows: Primula malacoides, F. Honeyman; Gardenias, V. Cleres; Freesias, H. Jones.

Exhibits for the March meeting will be antirrhinums, gladioli and violets. Mr. Wilkinson, of the New York State Department of Agriculture, will lecture on "Home Gardens."

HARRY JONES, Cor. Secy.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that George Giatras, 463 Summit street, West Hoboken, N. J., offers for registration the fern described below. Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Raiser's description: Originated as a sport of Nephrolepis Giatrasii, resembling this variety in its light green color, but with long, gracefully-recurving fronds. In habit of growth like Bostoniensis, but far more graceful. Name, "New York."

Public notice is hereby given that as no objection has been received or filed to the registration of the Begonia. "Melior," by Julius A. Peterson & Sons, of Cincinnati, Ohio, same becomes complete.

JOHN YOUNG, Secretary.

Feb. 21, 1914.

LANCASTER COUNTY (PA.) FLORISTS' CLUB.

The February meeting of this lively aggregation found four-fifths of the membership on hand, also a goodly number of visitors. The new president presided and the first blood of the evening was shed over The Co-operative Buying. Some firms who have been sending inferior goods into this section were handled without gloves and after a great deal of discussion pro and con the committee offered a recommendation that the members throw their trade as much as possible to the firms who have offered us inducements to get it, that we use our membership sticker in sending in orders to any and every one, and our card for the local dealers who have offered us a discount on certain lines.

This was followed by a paper on the Cleveland meeting and carnation show by A. M. Herr. The president had too much business for the meeting to allow any discussion so he called for a report from the committee to arrange with our local traction company to carry cut flowers on their regular passenger cars instead of being compelled to wait for express cars. This committee reported progress and anticipated favorable results. A committee was appointed to arrange for a fall flower show.

The visiting committee reported a trip to Manheim for March 19th, 2.30 P. M., from Lancaster, and the program committee reported having secured the lantern slides from J. Horace McFarland with a speaker to supplement them. The ladies will be invited to attend this lecture which is very fine.

The flowers shown were all good. Chas. S. Herr had a vase of Beacon that would have won any or all of the medals at Cleveland. B. F. Barr & Co. a vase of Alma Ward extra well done. W. B. Girvin had Pink Delight, Mrs. C. W. Ward, White Wonder, Gloriosa and Beacon, all in fine shape. H. D. Rohrer had a vase of his Scarlet Wonder which is proving to be a very good commercial sort. Rudolph Nagle had a very fine vase of Silver-Pink snapdragons, but the attraction of the evening was, of course, the vase of Mrs. C. E. Akehurst which is keeping up the standard it established at the Cleveland show.

Previous to the meeting an afternoon visit was made to the establishment of W. B. Girvin at Leola. Mr. Girvin's carnations are top-notchers and he contemplates erecting several additional houses this summer to make room for more. A. M. HERR.

CLUB AND SOCIETY NOTES.

The St. Louis County Growers' Club will hold its regular monthly meeting on Wednesday, March 4th, at 8 o'clock at the Eleven Mile House.

Sacramento, Cal.—The florists of this city have organized a horticultural society, with Mark Ebel as president and W. J. Meldrum, secretary.

The New York Spring Show Committee had a busy and enthusiastic meeting at the office of John Young, 53 West 28th street on Tuesday, February 24.

Brooklyn, N. Y.—The annual meeting of the Greater New York Florists' Association was held on Feb. 10th and a dividend of 10 per cent was declared.

Syracuse, N. Y.—At the annual meeting of the Syracuse Rose Society, Wallace R. Pierson addressed the members, his subject being, "What Americans have done for Roses."

At the next meeting of the Gardeners' & Florists' Club of Boston, March 17th, Ray Pierce, of the U. S. Dept. of Agriculture, will lecture on the "Chestnut Tree Blight," illustrated by numerous specimens.

San Francisco, Cal.—The officers of the Pacific Coast Horticultural Society were installed Feb. 7th as follows: President, H. Plath; vice-president, Thomas Taylor; corresponding secretary, Walter A. Hofinghoff; financial secretary, B. Meyer; treasurer, Daniel McLaren.

The Retail Florists' Association of St. Louis, met on Monday night, Feb. 16, and elected officers for the year: Harry Young, president; Theo. Miller, vice-president; Alex Geranions, secretary, and F. H. Weber, treasurer. The annual banquet took place Tuesday night, Feb. 24th.

The Houston (Texas) Florists' Club has found it necessary to postpone the banquet which was to have been held Friday night, Feb. 13, on account of numerous conflicting dates and engagements coming at this time. Planting week as inaugurated by the club, however, started Monday, February 16.

At the recent two-day meeting of the Michigan Horticultural Society at Benton Harbor, Representative J. J. Jakway told the fruit men Michigan's fruit laws were inadequate. He said it was not frosts or pests that were the fruit men's enemies, but the dishonest growers who resort to sharp tricks to cheat the consumer.

At the regular meeting of the Cook County Florists' Association, Feb. 19, there were thirty-one members present. The chief business was the election of officers, which resulted as follows: president, N. P. Miller; vice-president, A. Henderson; secretary, A. T. Pyfer; treasurer, J. Zech; sergeant-at-arms, M. Fink; trustees—A. C. Kohlbrand, A. J. Zech, J. L. Raske, Peter Olsem, Jas. Novak. A communication was read from the Grand Trunk railway, offering special rates to the east with the Boston convention in view. The club voted to take the matter up later. A collection of the Zvolanek sweet peas, grown by Henry Wehrman at Maywood, Ill., was exhibited.

During Recess

Rochester-Buffalo Bowling.

On Feb. 20 was the day set for the much-talked-of bowling match, Rochester vs. Buffalo. On reaching Rochester the Buffalo party of about 35 was met by a delegation and some time was spent in inspecting Rochester greenhouses and stores and then going to the Rochester Club for refreshments. At 7 p. m. the florists of the two cities sat down at the Hotel Eggleston. The able toastmaster Bates called upon President Dunbar, of the Rochester Club who answered—"We have on exhibition the bowling trophy donated by Lord & Burnham Co., and we are going to do our best to keep it in Rochester. It's for the best team to win, and may the contest be keen." William Legg, President of the Buffalo Florists' Club made a few brief remarks, also S. A. Anderson, J. H. Rebstock, Louis Neubeck, Jos. Streit and many Rochester representatives, among them M. Keller, J. B. Keller, George Hart, Al. Salter and others. A giant "shuper" purchased in Cleveland, recently by George Hart and J. B. Keller, and called the "Keller-Hart Trophy" was filled with wine and passed among the diners.

At 8.30 p. m. the game was called at the Odenbach Hof Brau alleys and after a practice game the great match was on.

The following notes depict the excitement in the first few frames. The author of the notes, being a Buffalo rooter, couldn't restrain his pen, so we let him have the floor just for once as, "it was a famous victory."

Salter and Sandiford first men up, and Rochester made four pins while Buffalo made a spare. A good cheer went up from the Buffalo rooters. Mike Keller was in fighting trim and not over anxious, a cool head, a fine ball rolled and the result a strike. Cheers by the Rochesterites. The striking continued with Speidel and the game was on in good earnest. Al Vick made nine and an easy spare. Edward Walther followed with a strike and it meant a real warm contest was on. Al Salter was cheered when his roll was on, but hard luck struck him and the result was a "Katz." Condolence was offered him and Rebstock was willing to bet (but was not permitted) that Buffalo would win first game. Hard luck followed for a few frames when Bowland made a strike and was carried off the alley by the Rochester boys.

After a few 7, 8 and 9 pins knocked down by the two clubs and things running a little quiet, Al Salter was again on hand and this time it brought the Rochesterites to their feet; a strike had been made and Al had more confidence. The Buffalo crowd showed the effect of too much good treatment at the banquet and therefore was much on the weak side and it looked as if the game was gone. Dull faces were seen for a while; Buffalo was weakening. In the sixth Rochester was getting stronger at each frame and every ball that went down counted and Charlie Vick remarked: "We have them going, keep it up boys." A strike was the result, the noise was terrific for a time and the excitement grew more intense as the game went on. Sandiford looked at his score and he was not up to his frame in the sixth and this caused a worried look in Charlie's face, though, through the efforts of L. Neubeck he was given a "refresher" and finally new life appeared.

The seventh frame found the Rochester boys going some and the Buffalo bunch somewhat worried. The rooters had also weakened and were called to another room where refreshments were served and Felix Alberts looked after their wants, as you know Felix is to become one of the Buffalo boys at an early date and therefore much encouragement was shown. The tenth frame was on and being soon ended showed that the Buffalo's had gained, total showing Rochester score to be 759, and Buffalo 773, winning by a small margin of 14 pins.

The second game run more evenly until the eighth when Rochester again weakened and Buffalo gained and the game ended with scores as follows: Rochester 744, and Buffalo 860, a margin of 116, Buffalo winning by 130.

The Buffalonians were taken to their train at midnight rejoicing over their victory. On March 4th the return match will be bowled in Buffalo, though arrangements have not been fully completed.

ROCHESTER.

	1st Game	2nd Game
Al. Salter, Capt.	121	163
M. Keller	115	124
C. Vick	153	120
Bowland	222	137
Lewis	148	200

BUFFALO.

	1st Game	2nd Game
Chas. Sandiford, Capt.	143	160
Jos. Speidel	162	161
Al. Vick	150	153
Edw. Walter	179	199
Jos. Streit	139	187

Nassau County Horticultural Society.

The eighth annual dinner of this society, held on Thursday night, Feb. 19, at the Oriental Hotel, Glen Cove, was as usual a great success. Although it was a stormy evening, about seventy members and their friends, including a number from New York and elsewhere, sat down to the excellent repast provided. In the absence of President H. Gaut, the chair was ably filled by ex-President J. W. Everitt. After the dinner, Mr. Everitt called upon the treasurer, E. J. Brown, and presented him with a diamond scarf pin as a mark of appreciation of the manner in which he filled the office of president during the past year.

Mr. Brown suitably responded and thanked the members for their loyal support during his term.

Mr. Everitt then presented as toastmaster Frank Bowne, of Glen Cove, who ably took the wheel and steered from speaker to speaker until there was hardly a topic under the sun which had not been alluded to, from the first gardener and his assistant up to the present time of horticultural and agricultural colleges and experiment stations.

Letters of regret were read from Messrs. A. Mackenzie, W. J. Stewart, of HORTICULTURE, Boston, and others. Mr. Everitt was presented with the Wells-Totty gold medal, won at the last fall show, and responded in a few words. The silver medal, which was won by Alexander Mackenzie, Highland Falls, N. Y., will be forwarded to him.

The speakers' list included Messrs. J. A. Shaw, of Florists' Review; J. H. Sperry, of Florists' Exchange; W. Sperling, and C. McTaggart, all of New York; Rev. J. W. Gammack, J. W. Everitt, J. H. Cocks, W. R. Kinnear, L. F. Underhill, J. F. Johnson, C. T. McCarthy, Dr. Connelley, and Mr. Partridge, of Glen Cove; A. Herrington, L. E. Ortiz, and A. Wilson, of New Jersey; James Duthie, Oyster Bay; R. Angus, Tarrytown, and Jas. Stuart, Westchester. Songs were rendered by T. Twigg, C. Plumb and A. Wilson. The singing of "Auld Lang Syne" brought to a close a very enjoyable evening.

HARRY JONES, Cor. Secy.

Gardeners' and Florists' Club of Boston.

The lecture hall in Horticultural Building, Boston, presented a scene of rare loveliness on the occasion of the annual banquet and dance of the Gerdeners' and Florists' Club. The tables were set for 250 and practically every seat was occupied. The decorations were most beautiful. The walls and tables were resplendent with plants and flowers generously contributed by the members. It would be unfair to mention one donor without naming all, but we shall make the exception of mentioning the superb Darwin tulips, Pride of Haarlem, brought by W. C. Rust, several vases of which were placed in different parts of the hall and overtopped and outshone all else. This is the first time we have seen these late flowering tulips forced at so early a date, and our readers will be interested to know it is possible to so bring them in. After the banquet, which was a most excellent one, there were a few brief speeches and some fine vocal and instrumental music. President Kennedy started the talking with some words of welcome and a hopeful reference to the coming affiliation for cooperative action of all the florists' and gardeners' associations in the country. President Farquhar of the Massachusetts Horticultural Society followed with happy felicitation on the occasion and expressing the pleasure it gave his society to see their hall used for such an inspiriting occasion, making reference also to the approaching S. A. F. Convention which will be the great horticultural event of the year in Boston. Vice-President Welch of the S. A. F. followed with a few words about the club's part in the entertainment of the 2000 or more visitors expected next August. Secretary W. N. Craig was enthusiastic about the harmonious relations existing between the gardeners and the commercial florists and spoke of the gardeners' work as an ennobling and elevating calling. President Sam. J. Goddard of the American Carnation Society spoke briefly and to the point. Interspersed between the speeches, songs were rendered by Miss Margaret K. Alexander and Mr. James Singer and piano solo by Miss Katherine Singer. These talented entertainers are no strangers to the Boston Club and their splendid

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work was greeted with unbounded appreciation.

W. J. Collins, floor director and W. J. Patterson, assistant floor director, with their staff of young aides, then took possession of the proceedings and dancing was in order until the midnight hour.

The annual banquet of the New Bedford (Mass.) Horticultural Society was held at the Parker House on Thursday, February 19, and proved a marked success. The largest attendance in the history of these festive occasions praised the delightful way in which the dinner was served and did full justice to Vermont's noted product. The hall was tastefully decorated with palms and flowering plants adorned the tables and mantles, while vases of carnations, lilies and narcissi added largely to the beauty of the scene. After the address of welcome by President Roy an interesting musical program pleasantly filled the evening until a few well-chosen words from the former president, F. C. Barrows, reminded the banqueters that the closing time had arrived.

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CLUB AND SOCIETY NOTES.

The Bayside Grill Room, Bayside, N. Y., is the place, and Saturday evening, Feb. 28, is the time for one of those jovial social occasions which Charlie Millang knows so well how to inaugurate and carry through to success. The affair this time is a "Killarney" beefsteak dinner. A cabaret show and dancing are included in the program, and two hundred or more ladies and gentlemen, including many prominent in the business and social life of Bayside, are expected to be present.

The regular monthly meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., on Saturday evening, Feb. 7th. The attendance was hardly up to the usual standard. The schedules for the exhibitions were submitted and accepted. At the next meeting there will be a lecture on Silos. The twentieth annual ball of the society was a decided success and reflected great credit on Jas. Clifford, G. Ferguson, F. H. Butler, L. C. Peters, G. H. Thompson, who acted as committee on that occasion.

SOME FINE MELONS.

The melons shown in the accompanying picture were grown by C. W. Smith, gardener at the Lewis estate,



Ridgefield, Conn. The one on the scales in the center weighed 10¼ pounds, and the others slightly less. The variety is Read's Scarlet.

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Manheim, Pa.—M. H. Hostetter, addition.

North Hero, Minn.—F. Keith, range of houses.

Louisville, Ky.—Nanz & Neuner Co., house 27 x 160.

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Morris, Ill.—Morris Floral Company, two rose houses.

Southington, Ct.—C. F. Curtis, South End, two houses.

Ridgefield, Ct.—Peter Hornig, Main street, one house.

Beverly, Mass.—Robert S. Bradley, Hale street, one house.

Evansville, Ind.—Wm. Halbrooks, range of carnation houses.

Butte, Mont.—Englewood Floral Co., one house and boiler house.

Lexington, Ky.—Michler Bros. Co., one Lord & Burnham house.

Milwaukee, Wis.—A. M. Detmann & Son, 4 100 ft. Moninger houses.

Leola, Pa.—W. B. Girven, range of carnation houses, next summer.

Long Branch, N. J.—Sydney Sternbach, Norwood avenue, one house.

Montrose, Mass.—Montrose Greenhouses, one Lord & Burnham house.

Philadelphia, Pa.—Karl Muller, 63d street and Kingsessing avenue, one house.

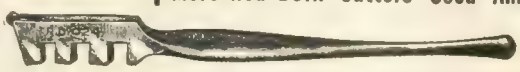
Joliet, Ill.—J. D. Thompson Carnation Company, one house and rebuilding, Moninger construction.

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KING HUMBERT. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
LEONARD VAUGHAN. 4½ feet. $3.75 per 100; $35.00 per 1000.
MUSAEFOLIA. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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Grandiflora. 10c. per oz.

PANSIES.
Thorburn's Superb Mixture. $4.00 per oz.

PETUNIA.
Howard's Star. ¼ oz., 50c.

SALVIA.
Splendens. $1.25 per oz.
Bonfire. $2.00 per oz.
Zurich. $4.00 per oz.
Silver Spot. $1.50 per oz.

VERBENAS.
Separate Colors. 50c. per oz.
Hybrid Mixed. 40c. per oz.
Hybrid Mammoth Mixed. 80c. per oz.

VINCA.
Rosea. 45c. per oz.
Rosea Alba. 50c. per oz.
Alba Pura. 50c. per oz.

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THE MOST RELIABLE SEEDS.
53 Barclay St. (T-24) New York, N. Y.

Jersey Grown Callas

1 1-2 inches in diameter and up.
To clean out $50.00 per 1000

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SEEDSMAN, HOBOKEN, N. J.
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Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.
"Renowned Sweet Pea Specialists"
SUNNYSLOPE, INDEPENDENCE, MO.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS
Established 1818
Write For Our Low Prices
LIGHT, PRATT and ELLICOTT STS.
BALTIMORE, MD.

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AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Chicago Seed Notes.

The Holland-grown gladioli are not regarded here with much favor. The bulbs are large but are not firm and often are of a spongy texture. The supply of Lilium formosum is decidedly short, the increased demand for them for cut flowers becoming greater each season.

Chicago seed houses are having a good winter business in their wholesale trade. They have done a very satisfactory shipping business in caladiums, cannas, tuberoses and bulbous stock generally and in flower seeds, particularly asters. A general scarcity of European flower seeds is noted, especially Centaurea candidissima. Some of the California sweet peas are also scarce. Catalogues are now out and a very optimistic outlook is maintained for a lively business as soon as spring opens. The cold weather and the snow are regarded as favorable rather than otherwise to a good season. Among vegetable seeds some varieties of peas are not up to normal in quantity, noticeably the wrinkled sorts.

Notes.

New Haven, Ct.—Mrs. Platt, wife of Frank S. Platt, the well-known seedsman, died at her home, 1149 Chapel street, on Feb. 16th.

The Stokes Seed Store at 217 Market St., Philadelphia, is altering and improving their retail department. An entire new front will be one of the features.

NEW CORPORATION.

Los Angeles, Cal.—Dorman-Shaw Seed Co., capital stock, $10,000; incorporators, Robert H. Dorman, Charles Shaw and A. J. Mitchell.

NEWS NOTES.

Whittford, Pa.—John Stanley has leased the greenhouses of J. C. Maull, consisting of about 50,000 sq. ft. of glass.

Council Bluffs, Ia.—The F. W. Menary Nursery Co., which has been in the receiver's hands for nearly two years, has been purchased by the First National Bank for $31,000. The bank holds a judgment against the company for $58,168.12.

Cold Storage Valley

Of finest quality for Early and Late forcing in cases of 1000, 500 and 250 pips at $16 per 1000. All expenses paid.

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99 Warren Street, NEW YORK

You Can Make Big Cash Profits By Devoting Your Attention To The Sale Of

ASPARAGUS PLUMOSUS NANUS

Plant seeds now. When potted Asparagus Plumosus Nanus often sells at $4.00, or over per hundred during June, July and August. Northern greenhouse-grown strain Asparagus Plumosus Nanus, $3.25 per 1000; $15.00 per 5000. Asparagus Hatcherii, 100 seeds, $1.00; 1000 seeds, $6.00.

Aster Seed

Queen of the Market

	Trd. Pkt.	Oz.
Dark Blue	$0.20	$0.75
Light Blue	.20	.75
Crimson	.20	.75
Blush Pink	.20	.75
Rose Pink	.20	.75
White	.20	.75
Choiced Mixed	.20	.65

Wire or write for our 1914 Wholesale Catalog. It will save you money. Contains complete list of best novelties and standard varieties. Get it.

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CANES

FRESH CUT ILLINOIS
6 to 8 Feet
$7.00 per 1000

Wm. Elliott & Sons

42 Vesey St., NEW YORK
Mention HORTICULTURE when writing

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Winter Orchid Sweet Pea

are grown by over 3000 growers this winter. If you have not seen them in flower, ask your nearest grower and see for yourself. Nothing will pay better in the next ten years than these popular flowers. New seed will be ready in August. To plant one house 20x100 will not cost you over $15.00.

Write for information to the ORIGINATOR,

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Sweet Pea Ranch LOMPOC, CALIF.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

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Special Agents in America:

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We sell Sutton's Seeds only. No stock carried. Send for catalogue.

Famous English Flower, Vegetable and Grass Seeds

SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

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SEEDS for the FLORIST

ASTERS—Rawson's Mid-summer

Flowers early in August and continues until frost. Bright Rose, Purple, Lavender, Shell Pink, Pure White, Finest Mixed

Trade Pkt. 35c.; Oz. $2.00

Sweet Peas, Cyclamen, Petunia, Verbena, Lily of the Valley from our own Cold Storage Plant. Our trade list mailed on application

FOTTLER, FISKE, RAWSON CO., THE SEED STORE Faneuil Hall Square, **BOSTON**

"QUALITY" SWEET PEA SEED

As fine Sweet Peas as grow, and true to name at prices which will bear investigation. Prices for immediate delivery.

SPENCER	Pkt.	Oz.
Florence Nightingale	$ .10	$ .30
Flora Norton	.15	.30
Asta Ohn	.10	.30
Pearl Grey	.10	.40
Apple Blossom	.10	.20
America	.10	.20
Countess	.10	.20
Blanche Ferry	.10	.25
Duplex Pink	.10	.30
Duplex Crimson	.15	.35
Dainty	.10	.20
White	.15	.35
Othello	.10	.20
Rainbow	.10	.35
Gaiety	.10	.25
King Edward VII.	.10	.20
Primrose	.10	.30
Martha Washington	.10	.20
Queen Alexandra	.10	.20
Sterling Stent	.10	.35
Fancy Mixed	.10	.20

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WHOLESALE ONLY

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J. W. Edmundson, Mgr. M. W. Williams, Sec'y

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Growers For Wholesale Dealers

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Write us for price on both globe and flat varieties. We are also quoting Onion Sets.

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SPECIAL STRAINS

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We ship to all points in Illinois and Iowa.
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913 Grand Ave.
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All Orders Given Prompt and Careful Attention

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DENVER, COLORADO

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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
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ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Clinton, Ia.—Andrew Bather.

Kalamazoo, Mich.—Fisher's, Rose street.

Elgin, Ill.—Geo. Souster, 34 Grove avenue.

Newark, N. J.—George Penek, 637 Broad street.

Chicago, Ill.—Zalinger & Hirsch, Insurance Exchange Bldg.

Indianapolis, Ind.—Pahud Floral Co., Illinois and Ohio streets.

New York, N. Y.—Miss Nora Fitzgerald, 386 Third avenue; Oliver Floral Co., 28 West 31st street.

STEAMER DEPARTURES

Allan.
Scotian, Boston-Glasgow.....Mar. 5

American.
New York, N. Y.-S'hampton..Mar. 6
St. Paul, N. Y.-S'hampton...Mar. 13

Atlantic Transport.
Minnetonka, N. Y.-Lond'n...Mar. 7

Cunard.
Carmania, N. Y.-Liverpool...Mar. 4
Andania, Boston Liverp'ol...Mar. 5
Pannonia, N. Y. Medit'r'n....Mar. 7
Mauretania, N. Y.-Liverpool.Mar. 11

French.
La Provence, N. Y.-Havre...Mar. 4

Hamburg-American.
K. Auguste Vic., N. Y.-H'b'g.Mar. 12

Holland-America
Noordam, N. Y.-Rotterdam...Mar. 3
Ryndam, N. Y.-Rotterdam...Mar. 10

Leyland.
Canadian, Boston-Liverpool..Mar. 7
Bohemian, Boston-Liverpool..Mar. 14

North German Lloyd.
K. Wilhelm II., N. Y.-Bremen.Mar. 10
Gneisenau, N. Y.-Bremen....Mar. 12
Berlin, N. Y.-Medit'r'n.....Mar. 14

Red Star.
Vaderland, N. Y. Antwerp..Mar. 4
Kroonland, N. Y.-Antwerp...Mar. 11

White Star.
Olympic, N. Y.-Southampton.Mar. 4
Celtic, N. Y.-Medit'r'n .....Mar. 7
Baltic, N. Y.-Liverpool.....Mar. 12
Cymric, Bost'n-Liverpool....Mar. 14
Canopic, Boston-Medit'r'n....Mar. 14

To the creditors of Edward J. MacMulkin, of Boston, in the County of Suffolk, and district aforesaid, bankrupt:

Notice is hereby given that on the thirteenth day of February, A. D. 1914, the said Edward J. MacMulkin was duly adjudicated bankrupt; and that the first meeting of his creditors will be held at a Court of Bankruptcy, at Rooms 121-122, Post Office Building, in said Boston, on the sixth day of March, A. D. 1914, at ten o'clock in the forenoon, at which time and place the said creditors may attend, prove their claims, appoint a trustee, examine the bankrupt and transact such other business as may properly come before said meeting.

JAMES M. OLMSTEAD,
Referee in Bankruptcy.
Boston, Feb. 24, 1914.

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Cost of Cabling Foreign Deliveries
Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
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"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

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Deliver orders from any part of the country to
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Or OUT-GOING STEAMERS
Write or Telegraph
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Telephone 1552-1553 Columbus

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FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
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Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

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MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

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Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y. The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Andersen, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Stamford, Ct.—The Hollywood and Glenbrook greenhouses have been purchased by Hugh Campbell.

New York, N. Y.—Leo Glick has purchased the retail store of J. Chiotis at Lexington avenue and 23d street.

Toledo, O.—C. W. Mordoff, F. E. Thompson and others have purchased the business of the Art Floral & Decorating Co.

Evansville, Ind.—The store and business of the Evansville Floral Co., Second street, have been purchased by Karl Zeidler, Jr.

Elmhurst, N. Y.—John Donaldson has sold his property here for public improvement purposes. He will occupy it, however, until about July 1st.

ORDERS FOR
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22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
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"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
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Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

PHILADELPHIA NOTES.

The West Philadelphia Rod and Gun Club, of which Mark Mills and W. K. Harris, Jr., are among the ruling elders, gave a theatre party on the 17th inst., which was largely attended by members of the craft. We are informed that the affair netted the club two hundred dollars.

The sympathy of the trade goes out to George W. Kerr of the Burpee staff, whose mother passed away on the 18th inst. She made her home with her son at Doylestown, Pa., and for a number of years was his housekeeper in Wolverhampton, England, where Mr. Kerr was in business previous to coming to America. The Kerr family have been established for many generations in the seed and nursery business in Dumfries, Scotland.

H. Bayersdorfer & Co. report the largest mid-winter movement of baskets and other standard florists' material in their experience. Two to three hundred cases are now due on three steamers, much of which will be forwarded at once to fill urgent orders. Rattan vases with glass receptacles are having a tremendous run. These and much of the basket stock are now received in natural color and are finished up to order in various tints and duocolors by the color spray process, as required by customers.

"A valuable etching of a distinguished face" is the way H. H. Battles sends his customers a little leather case about the size of a railroad ticket. When opened it's a mirror, and the pleasant joke is on the customer. The latter swallows it of course—that is, he puts it in his pocket. Good advertising. It takes H. H. of Phila. and Penn of Boston to show them the way. We understand, however, the "Blackboard Association" intend to do something some day that will vindicate their standing and prove an alibi.

Any one who has novelties to show the trade should not forget the excellent opportunity furnished by the monthly meetings of the Florists' Club—first Tuesday every month. No matter whether you are or are not a member. Come along and show what you have. If you are not careful you might sell some of it— and at no cost for advertising. Just think of the joy of beating out those trade paper people and getting space for nothing! The feature at the next monthly meeting will be an illustrated lecture on geraniums by R. A. Vincent, of White Marsh, Maryland, Tuesday evening, March 3rd.

ST. LOUIS NOTES.

Vandevoort's department store will on March 1st open a department for nursery stock of all kinds. W. S. Wells will have charge of this department.

Chas. Beyer had a narrow escape from freezing out last week when their boiler burst. Several dozen coal oil stoves were employed at once and a new boiler was soon installed. Some of the stock suffered greatly but from reports the loss was only small.

New Orleans has been luxuriating, so the press dispatches state, in her first snow storm in ten years.

WASHINGTON NOTES.

The sympathy of the entire trade is with Mr. and Mrs. Adolph Bowdler on the loss of their little daughter, Janet L. Bowdler. The little girl was nine months old.

At the meeting of the Florists' Club Tuesday evening, March 3, the annual election of officers will take place. At this meeting also the proposed Smith Memorial will be taken up as will other matters of equal importance.

The Retail Merchants' Association, of which a number of local florists are members, held their third annual get-together dinner at the Shoreham Hotel. William F. Gude, William Marche, Frank Miller and S. D. Blackistone were among those present.

William F. and Adolphus Gude have conveyed their individual holdings in thirty-seven acres of property in Anacostia and in this city, improved by about 350,000 square feet of glass, dwellings and other buildings, to Gude Bros., Inc. While the consideration is not named in the deed, it is said that the corporation has given them a mortgage for part payment on the property of about $120,000.

Members of the House of Representatives are continuing to introduce bills looking to the inclusion of seeds, bulbs, scions and cuttings into the parcel post system and all such bills are going the same route—to the Committee on Post Offices and Post Roads. If it is the desire of those who use the mails for the transmission of such merchandise that a bill of this nature be enacted into law, they should inform their Congressmen of the fact.

The eight-hour law for women came into being on Tuesday afternoon last, when President Wilson placed his signature on the Congressional Act. The stores have all prepared to meet the requirements of the law. Under its provisions records must be kept of the hours at which all female employees report for duty, go and return from lunch, and of their dismissal at the end of the day, as well as of salaries paid and other information. Three inspectors are to be employed to see to the enforcement of the law.

CHICAGO NOTES.

John Steinmetz of 1643 N. Halsted street is acting as local salesman for R. M. Ward & Co., New York.

Mrs. Chas. McKellar was brought home from the Henrotin hospital last Thursday and is slowly recovering from a severe operation.

Guy French, who recently broke his shoulder, is getting about again. Mr. French is manager of the carnation ranges of the Poehlmann Bros.

Fritz Bahr who has been in California most of the winter is back to his home at Highland Park, Ill., where his four children are ill with diphtheria and scarlet fever.

The Foley Greenhouse Co. has delivered its first carload of wood work to Morton Grove, for the new Poehlmann range. The rest is being turned out rapidly and the new factory is proving in some ways superior to the old one in facilitating rapid work and convenient handling.

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO
And Neighboring Towns
Are Thoroughly Covered by
SCHILLER, THE FLORIST
(Member Florists Telegraph Delivery).
Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
GEORGE ASMUS, Mgr.
2221-2223 W. Madison St., CHICAGO.
'Phone West 822

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

The outlook here is favorable to a large attendance at the joint meeting of the State Florists' Associations of Illinois and Indiana, at Danville, Ill., March 10-11. A. Kohlbrandt, who is interested in its promotion, says the success of the Illinois meeting last year is waking up all connected with the trade to its possibilities as a place to exhibit their flowers and to meet prospective customers. This territory is very desirable to the shippers in the Chicago market.

UNITED ICE MACHINES
For Florists and Greenhouses. Hundreds in successful stores everywhere. Let us show you their economy. Ask for Catalog X1.
UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

QUALITY SCRIPT LETTERS

Our Script Letters Are Sold As Low As Right Quality Letters Can Be Sold. We Cannot Meet Low Price Competition With Our Standard Goods. The Letters We Offer Are Well Finished, Uniform In Color and First Class Every Way. They Give Tone To Any Work Where They Are Used. Send for a Sample of Our Goods and of the Cheap Stuff Offered In Competition and Compare Them. That's All. We Buy No Job Lots.

IN ALL FLORISTS' SUPPLIES

we hold to high standard. When there is anything new worth having we sell it. Special for this week:—St. Patrick's Day Hats, Pipes and Other Conceits for sending out with March 17th orders.

H. BAYERSDORFER & CO., PHILADELPHIA, PA.
The Florist Supply House of America

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12 inches high,	$2.50 per doz.		4	24 inches high,	$5.00 per doz.			
2	15 " "	3.50 " "		5	30 " "	6.50 " "			
3	18 " "	4.00 " "		6	36 " "	9.00 " "			

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

Obituary

Henry Meyn.

Henry Meyn, a retail florist of 2045 Germantown road, Philadelphia, died on Thursday, Feb. 19th.

Truxton Craven.

Truxton Craven, a well-known landscape gardener of Manhasset, N. Y., died on Feb. 10th from injuries received in an automobile accident. He is survived by his father, a prominent civil engineer of New York.

Stephen McHale.

Stephen McHale, foreman for John Condon, florist, Brooklyn, N. Y., died February 18 from pneumonia at his home, 33 Nineteenth street. He was born in Castle Bar, County Mayo, Ireland, thirty-four years ago, and is survived by one son, a brother and five sisters.

S. H. Warren.

Samuel H. Warren died on Feb. 20th at his home in Weston, Mass., aged 77 years. Mr. Warren was an expert cultivator of strawberries and a frequent prize winner at the strawberry exhibitions of the Massachusetts Horticultural Society. He has been in failing health for over a year. He is survived by a sister, with whom he lived.

KOMADA BROS.
Manufacturers of all Kinds of
WIRE DESIGNS and FLORISTS SUPPLIES
1008 Vine St., PHILADELPHIA, PA.

ESTABLISHMENT OF A PROSPEROUS LADY FLORIST.



The accompanying illustration shows the place of Mrs. A. I. Colburn, florist, 68 Graham street, Gardner, Mass. There are two greenhouses, one 30x160, the other 20x100. The evidences of scrupulous care and neatness and consequent prosperity are apparent. There will never be too many such places in Massachusetts or anywhere else.

FIRES.

Kirkwood, Mo.—A. S. Cerny's greenhouses were badly damaged by fire on Feb. 10th.

Lowell, Mass.—The greenhouses owned by Mrs. P. J. Riley, on Fairmount street, were destroyed by fire on the morning of Saturday, Feb. 21. This place was for many years conducted by the late Edwin Sheppard.

Brockton, Mass.—Fire starting from an overheated furnace in the greenhouse of W. J. Marshall at 517 Copeland street today destroyed structures, plants and blooms valued at $15,000, on Wednesday, February 25. The fire spread quickly and most of the growing things shrivelled up under the intense heat. What escaped the heat was frost-bitten, as practically every light of glass was melted or broken. All of the horse-drawn apparatus was stalled at the foot of the big hill in Capeland street, 200 yards from the fire, and the automobile combination apparatus had to fight the fire unassisted.

As an Advertising Medium Horticulture has NO superior. Because they ALL read it and they read it ALL.

SNAPDRAGON

$2.00 per Doz.

White, yellow and several shades of pink. This stock is in splendid condition, long stems and large flowers.

The Leo Niessen Co.

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To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

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THE BEST LETTERS

FOR FLORIST'S USE

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THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI February 23	CHICAGO February 23	BUFFALO February 23	PITTSBURG February 23
Am. Beauty, Special	5.00 to 40.00	15.00 to 40.00	60.00 to 75.00	40.00 to 50.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 30.00	20.00 to 50.00	25.00 to 35.00
" " No. 1	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00
Killarney, Extra	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	8.00 to 12.00
" Ordinary	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	4.00 to 6.00
Richmond, Hillingdon, Extra	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 12.00
" " Ordinary	6.00 to 8.00	4.00 to 8.00	6.00 to 8.00	4.00 to 8.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00	8.00 to 12.00
" " " Ordinary	6.00 to 8.00	4.00 to 8.00	6.00 to 10.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to	. to ..	..... to .....
Carnations, Fancy	3.00 to 4.00	2.50 to 4.00	..... to 3.00	... to 4.00
" Ordinary	2.00 to 3.00	1.00 to 2.00	2.00 to 2.50	2.00 to 3.00
Cattleyas	35.00 to 50.00	35.00 to 50.00	30.00 to 40.00	35.00 to 45.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 12.50	10.00 to 12.00	to 15.00
Callas	10.00 to 12.50	10.00 to 12.00	8.00 to 10.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Paper Whites, Roman Hyacinths	..... to 3.00	3.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Freesias	2.00 to 4.00	3.00 to 5.00	2.00 to 3.00	..... to 4.00
Daffodils	..... to 4.00	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Tulips	3.00 to 4.00	2.00 to 5.00	2.00 to 3.00	3.00 to 5.00
Violets	.50 to .75	.25 to .75	.50 to .60	.35 to .75
Mignonette	5.00 to 6.00	4.00 to 6.00	2.00 to 5.00	4.00 to 6.00
Daisies	1.00 to 1.50	1.00 to 2.00	1.00 to 1.25	..... to 3.00
Sweet Peas	1.00 to 1.50	1.00 to 3.00	.50 to 1.00	.50 to 1.25
Gardenias	25.00 to 30.00	25.00 to 30.00	20.00 to 25.00	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	. . to 1.25
Smilax	12.50 to 15.00	12.00 to 18.00	. to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	35.00 to 50.00	40.00 to 60.00	25.00 to 50.00
" " & Sprn. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	25.00 to 35.00	35.00 to 50.00

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WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

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Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

When writing to advertisers kindly mention HORTICULTURE.

Please mention Horticulture when writing.

Flower Market Reports

BOSTON With the incoming of Lent we have, very appropriately, an amelioration of weather with sunny skies and a spring like atmosphere. The generous quantity of snow now on the ground, however, effectually precludes any thought of spring operations out of doors but cannot prevent luxuriant development under glass and there are unmistakable signs that the flower market is about to experience a big drop in values—the first of any consequence since Christmas. Prices at present writing are not much affected but, judging by the accumulation already started in the wholesale markets it is only a question of days or probably hours, when the deluge will get in its work and the bargain hunter will resume his position of importance which he had to abdicate months ago. American Beauty roses are still scarce but other standard varieties are in satisfactory supply, with quality very good. Carnations are also coming in freely and of excellent quality. Bulbous stock is exceedingly plentiful and selling low. Of cattleyas there are enough, with dendrobiums elbowing them a bit in decorative work. Sweet peas, if of Spencer type are making a record; otherwise they drag far behind. Violets swarming everywhere.

BUFFALO No warm weather in sight but the mercury holding around the zero mark for another week. It really has been too cold for the good of the flower business. The merchants' windows are beautifully decorated with spring plants, such as azaleas, lilacs, cyclamen, hyacinths, tulips and daffodils, and making an effective attraction for the buyers. There have been no bargain sale signs displayed, though the time is near, as the market is gradually filling up, especially on bulbous stock, and as the Lenten days are drawing near it is hoped that milder weather will also come with it. Carnations are plentiful in the ordinary quality, and roses are coming in more plentifully. Lily of the valley, violets, Roman hyacinths, and practically everything along the line are had in good supply.

CHICAGO The tone of the market is very good. With the exception of violets, which are arriving in almost unlimited quantities, all good stock sells out each day. The Hudson River district seems to have an inexhaustible supply of violets which are being shipped here in larger quantities that can be sold to advantage, while on the other hand, local growers of singles are now cutting heavy crops for the first time this season. There is really no quotable price on violets in large lots. Growers of fancy sweet peas are reaping a harvest now. The large butterfly varieties bring $2.00 and $2.50 per 100 and sell more readily than the small common ones at one-third the price. There is such a difference between the old and the new that growers have only to visit the market now to know how to plan for next season. Short roses are short in supply. Long ones are more plentiful but not in sufficient quantity to reduce the price, which holds steady as it has done ever since the holidays. There are enough American Beauties to meet the demand and quality is fair. There is very poor sale for poor carnations of which there are many. Good ones sell well at a fair price. There is a good call for lilies and a fair demand for orchids and lily of the valley.

NEW YORK The snow embargo and low temperatures of late have played the mischief with flower receipts, causing uncertainty and exasperating delays in delivery and much loss from freezing, the latter often due to unskilful packing. The same causes have operated to greatly curtail the outgo, so that even under stress of inclement weather much stock has accumulated in wholesale hands and the street men have been unable to take advantage of this so far. But if all indications are considered, the opportunity for the street man is about to present itself and then will come a six weeks' sparring tournament between wholesalers and speculators such as only New York can furnish. Bulbous stock occupies the major portion of the sales tables at the present time. Tulips are in the lead as to quantity and variety and they certainly are fine. Violets cannot seem to escape the "hoodoo" which has followed them all through the season. There is no hoodoo on sweet peas, however, although they must be Winter Spencer to realiz

(Continued on p.)



DOUBLE WHITE KILLARNEY

The best White Rose on the market today, splendid large heavy buds, unusual value.

Special ..... $10.00 per 100
Extra ..... 8.00 per 100
First ..... 6.00 per 100
Second ..... 5.00 per 100

VALLEY—The famous P. M. Brand.
Special ..... $4.00 per 100
Extra ..... 3.00 per 100

GARDENIAS
Special ....$3.00 per doz; $20.00 per 100
Fancy ..... 2.00 per doz; 15.00 per 100

Special. In lots of 50 or more, assorted lengths, $12.50 per 100.

ACACIA—The genuine pubescens beautiful sprays of brilliant golden yellow. A rare and choice item. Attracts the buyer looking for something unusual. While the crop lasts: Per bunch, $2.50.

FORSYTHIA Extra large bunches, splendid long sprays, $2.50.

PUSSY WILLOWS—50c and 75c per bunch.

FOR ST. PATRICK'S DAY Green Carnation Dye, 50c per package.

RIBBONS AND SUPPLIES Many new patterns in Exclusive Ribbons. If you have not received one of our new catalogues write us and we will send you a copy.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON February 26			ST. LOUIS February 23			PHILA. February 23		
Roses									
Am. Beauty, Special	50.00	to	75.00	30.00	to	50.00	62.50	to	75.00
" " Fancy and Extra	20.00	to	40.00	15.00	to	25.00	35.00	to	50.00
" " No. 1	10.00	to	15.00	10.00	to	12.50	15.00	to	25.00
Killarney, Extra	6.00	to	10.00	8.00	to	10.00	10.00	to	15.00
" Ordinary	3.00	to	6.00	4.00	to	6.00	4.00	to	8.00
Richmond, Hillingdon, Extra	6.00	to	10.00	8.00	to	10.00	10.00	to	15.00
" " Ordinary	3.00	to	6.00	4.00	to	6.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	10.00	6.00	to	10.00	10.00	to	15.00
" " " Ordinary	3.00	to	6.00	4.00	to	6.00	4.00	to	8.00
Russell, Shawyer	10.00	to	15.00	....	to	....	6.00	to	25.00
Carnations, Fancy	2.50	to	3.00	3.00	to	4.00	4.00	to	5.00
" Ordinary	1.00	to	2.00	1.50	to	2.00	2.00	to	3.00
Cattleyas	20.00	to	35.00	40.00	to	50.00	45.00	to	50.00
Lilies, Longiflorum	10.00	to	12.00	10.00	to	12.50	10.00	to	12.50
Callas	..	to	12.00	10.00	to	12.50	10.00	to	12.50
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	3.00	to	4.00	..	to	3.00
Freesias	1.00	to	2.00	3.00	to	4.00	2.00	to	4.00
Daffodils	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
Tulips	2.00	to	4.00	3.00	to	4.00	2.00	to	5.00
Violets	.25	to	.50	.20	to	.50	.20	to	.75
Mignonette	4.00	to	6.00	4.00	to	6.00	2.00	to	5.00
Daisies	..	to	2.00	....	to	....	2.00	to	3.00
Sweet Peas	.50	to	1.50	.25	to	1.00	.20	to	1.50
Gardenias	20.00	to	25.00	.....	to	.....	8.00	to	20.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	45.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	15.00	15.00	to	25.00	25.00	to	50.00

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GARDENIAS, DAISIES, ROSES AND CARNATIONS
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 21 1914	First Half of Week beginning Feb. 23 1914
American Beauty, Special	50.00 to 60.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 40.00	20.00 to 30.00
" " No. 1	5.00 to 10.00	5.00 to 10.00
Killarney, Extra	8.00 to 12.00	8.00 to 12.00
" Ordinary	3.00 to 6.00	3.00 to 6.00
Richmond, Hillingdon, Extra	5.00 to 12.00	5.00 to 10.00
" " Ordinary	2.00 to 5.00	2.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 15.00	8.00 to 15.00
" " " Ordinary	3.00 to 8.00	3.00 to 8.00
Russell, Shawyer	8.00 to 12.00	6.00 to 12.00
Carnations, Fancy Grade	3.00 to 5.00	3.00 to 5.00
" Ordinary	2.00 to 3.00	1.00 to 3.00

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WHOLESALE FLORISTS, 34 West 28th St., New York
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ALBANY CUT FLOWER EXCHANGE
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Prices Right. Consignments Solicited. Telephone Connection

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Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
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55 and 57 W. 26th St., New York
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WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 309)

anything like a normal price. Of the exceptional things snapdragons and calendulas are making a fine record. Quantities of cattleyas of inferior quality are unloaded at unquotable prices and find their outlet through bargain sale advertisements in the daily papers. For anything really fine in the line of cattleyas quoted prices are usually maintained.

PHILADELPHIA As was to be expected, the prelenten week proved to be a brisk and profitable one for the flower business. All stock sold well, the leaders probably being carnations which were in lively demand and just a little ahead of supply—which kept prices firm—with no bargains for old "Iron-Face" the cold-blooded waiting buyer. That gentleman's strong point is his ability to hang around and wear out the opposition, and he wins out all right, too, unless the market is very strong. Pink roses sold well—also American Beauties. The latter were in larger supply but did not weaken in price here so much as we hear they did in New York, from which point some of our buyers picked up some good stock at considerably less than local quotations. Prices on orchids hold firm and there are enough to meet requirements. The gardenia market continues rather sluggish and good stock can be had at very reasonable figures. There is no improvement in the violet situation. Lily of the valley remains normal both as to supply and demand. Large quantities of daffodils, both single and double, are arriving and selling moderately well although at rather law prices. Roman hyacinths and paper whites are scarce. The Easter lily supply has increased with the advancing season and prices have dropped a notch.

ST. LOUIS There has been considerable business for the retailers during the last week. Surpluses at the wholesale markets were well taken up and this pleased the wholesalers greatly, as stock was plentiful in all grades except extra fancy roses, for which there is always a good call. Prices are below the last quotations on almost everything. All flowers are on crop and quite a large amount of stock from now on is expected. In greens the market affords anything the trade demands.

WASHINGTON Business during the month of February can only be considered as "fair." The exceptionally cold weather caused a marked shortening of the supply and at times it was hard to get flowers on order. Roses have been very scarce for some time and are bringing good prices. Carnations are still in good demand at $4 and $5 per hundred. American Beauty roses are very scarce and bringing up to $10 per dozen. The St. Valentine and Washington's Birthday business was very good and caused the movement of all the stock that came into the market. As previously reported, deliveries are still poor, not only within the city, which on Monday was covered with more than six inches of snow, but to and from adjoining cities and towns. The extreme cold is keeping many of the flower vendors off the streets with the result that the stores are doing an increased business in violets and sweet peas. It is said that an effort will again be made at an early date looking to curb the activities of these street men.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 21 1914	First Half of Week beginning Feb. 23 1914
Cattleyas	20.00 to 60.00	20.00 to 60.00
Lilies, Longiflorum	10.00 to 15.00	8.00 to 12.00
Callas	8.00 to 12.00	8.00 to 12.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	..... to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	2.00 to 3.00	2.00 to 3.00
Violets	.25 to .75	.25 to .75
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	4.00 to 12.00	4.00 to 12.00
Gardenias	4.00 to 35.00	4.00 to 35.00
Lilacs (per bunch)	.. ... to 1.50	..... to 1.50
Adiantum	.50 to .75	.75 to 1.00
Smilax	6.00 to 12.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	25.00 to 35.00

PERSONAL.

John Haury and Miss Annie Shouse, of Nashville, Tenn., were married Feb. 15th.

Louis Morel, of Morel Bros., Scranton, Pa., has gone south on account of ill health.

Henry Cliff is the successor of the late Chas. E. Keith as superintendent of the parks of Bridgeport, Conn.

John Walker, of Youngstown, Ohio, is in Cuba, recuperating his health. He will go to Panama before returning home.

S. J. Reuter, wife and daughter, of Westerly, R. I., will sail for an European visit on the steamer Potsdam, leaving New York, March 24.

E. W. Fengar, of Irvington, N. J., has been seriously ill with pneumonia for the past three weeks, but is reported now as convalescing rapidly.

H. Bayersdorfer, of Philadelphia, has been on the sick list recently and has been at his place of business only intermittently, but is now improving rapidly.

Raymond Kulm, for sixteen years with M. Lyons, florist, South Orange, N. J., has accepted a position as landscape gardener with Mrs. W. Halsey, S. Orange.

M. C. Ebel, of Madison, N. J., of the Aphine Mfg. Co., had the misfortune to fall and fracture his knee cap on Wednesday, February 18. He is recovering nicely.

Robert E. Berry has given up his commercial rose-growing establishment at Chatham, N. J., and will take charge of the Shrewsbury Nurseries, Eatontown, N. J.

Miss Florence M. Wyman, daughter of W. H. Wyman, proprietor of the Bay State Nurseries, North Abington, Mass., and Arthur W. Calkins, were married on Feb. 10th.

George Barton has been appointed manager of the 1100-acre estate of Emerson McMillan at Darlington, N. Y., and will assume charge March 1st. Mr. Barton was formerly superintendent of the Glen Cove estate of Henry W. J. Buckingham.

John D. Ramaley, proprietor of the St. Peter street floral exchange and a resident of St. Paul, Minn. for thirty-five years, celebrated his 80th birthday anniversary on February 14 by giving flowers to his friends and customers, in accordance with a custom he inaugurated a year ago.

NEW WHOLESALE HOUSES.

Baltimore, Md.—The Walter R. Siebrecht Company have opened a branch wholesale store at 200 W. Mulberry street.

Brooklyn, N. Y.—The Manhattan Cut Flower Co., A. Hanig, proprietor, have opened a wholesale store at 11 Court square.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N J.

APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York.
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Bay Trees and Box Trees, all sizes and prices. List on application.
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Henry A. Dreer, Inc., Philadelphia, Pa.
Tuberous Rooted Begonias.
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The Joy Blackberry.

BOILERS

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Lord & Burnham Co., New York City.

BOUVARDIAS

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Bouvardia Stock Plants—Single Pink and Red, $5.00 per 100. Orders taken for Rooted Cuttings, ready May and June, $20.00 per 1000. Cash with order. JOHN HOLT, North Wales, Pa.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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Ralph M. Ward & Co., New York City.
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Jersey-Grown Callas.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St

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Boddington's Quality Cannas.
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Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.
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108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

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Princess Dagmar.
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Carnation Mrs. B. P. Cheney.
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A. Begerow, Newark, N. J.
Carnation Prince Edward.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Novelties for 1914.
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Chrysanthemums Rooted Cuttings.
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COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

Thomas Roland, Nahant, Mass.
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DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

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Gladioli, Large Bulbs for Forcing: Augusta, America, Shakespeare, Scarsdale, Columbia, Wezinscott, Planting Stock of B. Hulot, and Scarsdale. Write for prices. GEO. J. JOERG, Gladioli Grower, New Hyde Park, L. I., N. Y.

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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Tobacco Stems, $1.00 hundred pounds. U. CUTLER RYERSON, 108 3d Ave., Newark, N. J.

LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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PRIVET, Spirea, Barberry and Hydrangeas.—Amoor River North, 12 to 18 inch, $20 per 1,000; 18 to 24 inch, $25; cuttings, $1.50 per 1,000. Spirea Van Houtte, 18 to 24 inch., $3 per 100. Thunberg's Barberry, 8 to 12 inch bran., $2 per 100; 12 to 18 inch, $4; 18 to 24 inch, heavy, $6 per 100; 24 to 30 inch, $8.50. Amoor River Evergreen, 12 to 18 inch, $12.50 per 1,000; 18 to 24 inch, $16.50. Hydrangea P. G., $3.50 per 100. VALDESIAN NURSERIES, Bostic, N. C.

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PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

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H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

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New Crop Aster Seed.

Fottler, Fiske, Rawson Co., Boston, Mass.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

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John C. Meyer Thread Co., Lowell, Mass.
Meyer's Green "Silkaline."

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Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

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Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

VEGETABLE PLANTS

TOMATOES.
5000 Comet Forceing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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In Writing Advertisers Kindly Mention HORTICULTURE

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

SITUATIONS WANTED

Head Gardener

Thoroughly capable man for every department of gentleman's place, desires engagement. Well up in greenhouse and outside work. Specialty: fruit under glass, carnations, roses and 'mums; or as manager of commercial place where results count. Scotch; age 40; married, no family. Address, COMPETENT, care of HORTICULTURE.

WANTED—Position as head gardener on private estate. Experience: Orchids, stove and greenhouse plants, carnations, etc.; care of lawns, shrubs, vegetable and flower garden. Just completed two years on a well-known Brookline estate. Address with full particulars of establishment, and salary paid. WILLIAM COTTERELL, Washington College, Chestertown, Md.

SITUATION WANTED as Head Gardener or Foreman; English; age 32; 15 years' experience; best of references as to ability and character. R, care of HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

(*Continued from page 284.*)

GREENHOUSE CONSTRUCTION AND HEATING.

(A paper read before the North Shore (Mass.) Horticultural Society by F. J. Elder.)

Hot water heating was used before steam heating, and while the use of steam is increasing rapidly, it may still be stated that hot water heat is better *in most cases* than steam heat. It is not so intense and more like natural or sun heat. It permits of more even distribution, especially so in small or, medium sized houses. Plants will thrive better generally in water heated houses than they will in the superheated near steam piping.

The increasing use of steam is due to two causes. The first cost of an ordinary steam plant is considerably less than the cost of a corresponding hot water system, and the adaptability of steam to long houses, which are also increasing in number. Steam circulation is much move positive even in a low-pressure gravity system, than is a gravity water circulation. With steam there is pressure, and steam may be carried long distances without difficulty; whereas gravity water systems are really not adapted to long houses, nor to large ranges.

Advantages of Hot Water Heating.

On the other hand, hot water heating is much better and much more economical than steam for small and medium sized plants. In mild weather light fires only are necessary, just enough to keep up a circulation; while with steam we must have fire sufficient to boil the water in order to get any circulation whatever. A night fireman is not necessary with a water heated plant. The boiler should have an ample surplus of capacity. It should have a deep fire pot to provide for a deep and slow fire. It should have a long flue travel and much indirect surface so that the products of combustion will give up most of their heat before passing up the chimney. The boiler should be easy to fire and easy to clean..

The Best Boilers.

For all small and medium-sized plants cast iron sectional boilers are best for water and for steam. They are easier and cheaper to install than tubular boilers, require no bricking in, and they resist corrosion much longer than any wrought boiler can. Two or three such sectional boilers properly valved, may be used with good results. Economy is obtained by using one boiler only in mild weather, and others as needed. Tubular boilers should be used for large plants, and while these boilers are not so well adapted to deep slow fires, large greenhouse plants require night firemen who may give such boilers the more frequent attention they require.

Piping.

In private greenhouses three and one-half inch cast-iron piping is used almost exclusively. Each lineal foot of this pipe contains approximately one square foot of surface, 1.05 feet to be exact.

Cast iron pipe is of course much more enduring than wrought pipe of any grade, but the greatest virtue of this piping is that because of the large quantity of water contained, three and one-half inch piping will take much longer to cool than piping of smaller calibre, and this is decidedly an advantage where no night fireman is kept. In commercial plants with hot water heating two inch piping is generally used. The circulation by gravity is not generally much more rapid in two inch piping than in three and one-half inch piping, for while it takes longer to heat and to cool the water in three and one-half inch pipe, friction is greater in the smaller sized pipe. One lineal foot of two inch pipe contains .62 square feet of surface, and it takes 1.68 lineal feet of two inch pipe to equal in surface one lineal foot of three and one-half inch pipe. 1.68 lineal feet of two

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. — **Experimental Greenhouses, Catonsville, Md.** — **Experimental Farm, Farmingdale, N. J.**

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

LEMON OIL CO'S STANDARD

SOLUBLE IN WATER

NO ODOR **INSECTICIDE** NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc, without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.
CLARKSVILLE, TENN.

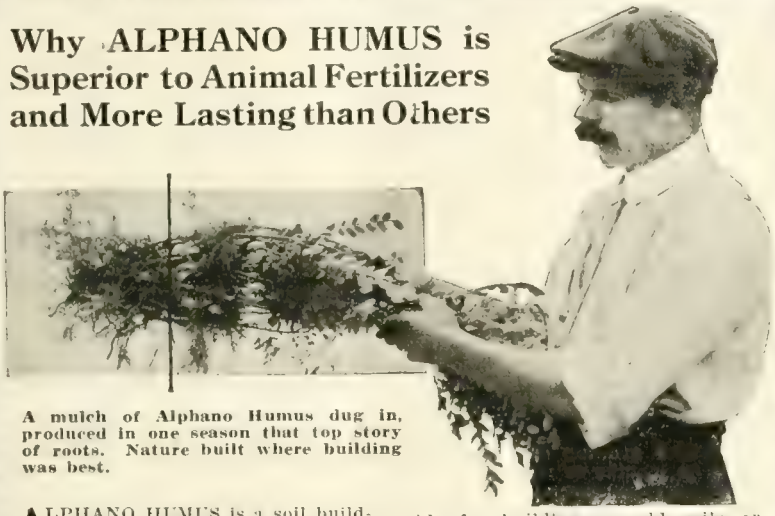
FERTILIZERS

Tankage, $2.00; Sheep, $1.75; Bone, $2.00; Ashes, $1.50; Phosphate, $2.00; Limestone, $1.00; Blood, $4.00; Nitrate Soda, $4.00; Sulphate Potash, $3.50 per 100 lbs. Smallest quantity sold 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N.Y.

When writing to advertisers kindly mention HORTICULTURE.

Why ALPHANO HUMUS is Superior to Animal Fertilizers and More Lasting than Others



A mulch of Alphano Humus dug in, produced in one season that top story of roots. Nature built where building was best.

ALPHANO HUMUS is a soil builder and plant food combined.
It makes light soils heavier and heavy soils lighter.
It is nature's balanced ration. Read on and prove it to yourself.
It has a distinct advantage over animal manures in being perfectly sanitary and entirely odorless. It is much the richest in nitrogen and the several other elements so essential for vigorous plant growth. Being in powdered form it can be easily and thoroughly mixed with the soil. No lugging and tugging with a fork—no task breaking up chunks and lumps as with animal manures. No laborious spreading on and then invariably raking part off.
Alphano can be spread on evenly and easily. **All of it can be left on.** Think of the advantage of its use on your lawn where manures are both offensive and unsightly, and eventually have to be raked off, taking much of their fertilizing value with them.
Manures are laden with weed seeds. Alphano is guaranteed to be free from them. Top soil taken from the woods, everybody knows, is particularly valuable for building up old soils or making new ones.
Wood soil is simply soil rich with humus. But humus is apt to be acid and inert. The difference between it and Alphano Humus is: Alphano is richer, extremely active and more thoroughly decomposed and more readily available than wood soil.
Wood humus is mixed with a large proportion of soil; but Alphano Humus is practically **all humus**—every part of it contributes to the upbuilding of the soil it is mixed with.
In one season you can convert a practically worthless soil to one of surprising productivity. Being so reasonable in price you can use it freely. Spread it on your lawn and rake in (not off).
Put it on your garden and spade in. Sow it in your garden seed drills or trenches. Dig it around your shrubs and trees. Use it as a mulch for your Rhododendrons. Boost along your flowers with it. From start to finish garden this spring with Alphano.

5 BAGS for $5

$12 a ton—$8 by the carload.
F. O. B. Alphano, N. J.

Send for our Humus Book. It tells about humus in general and Alphano Humus in particular.

Alphano Humus Co.

950 Whitehall Building, New York City

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:—
"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:—
"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—
"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass. writes:—
"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart **$3.00 Per Gallon**
(Special prices on large quantities).
For Sale by Seedsmen.

We Manufacture
APHINE, FUNGINE, SCALINE, and NIKOTIANA.

Aphine Manufacturing Co.
Manufacturers of Agricultural Chemicals
MADISON, N. J.

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British Distributors: British and American Fertilizing Co., Liverpool, Eng.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:
$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

IMP. SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 **5 GAL., $6.50**
Dilute with 24 to 40 parts water.

Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., - - BEVERLY, MASS.

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FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

inch pipe contains 2.44 lbs, of water. One lineal foot of three and one-half inch pipe contains 4.28 lbs. of water, or slightly more than 2 quarts. Therefore one square foot of surface in two inch pipe contains very little more than one-half as much water as one square foot of surface of three and one-half inch pipe. One square foot of three and one-half inch cast-iron pipe surface costs 24¾ cents. One square foot of two inch guaranteed wrought iron pipe surface costs 22½ cents.

With all kinds of houses and for nearly all purposes, the piping should be as near the floor as practicable. There should be no overhead pipes. Hot-water coils should be made up of an equal number of flows and returns. These pipes should be parallel to each other, and should be graded to rise about three-eighths of an inch in 10 feet toward the far end of the coil. The flows should be set on top of the returns, and the accumulating air should be taken out by means of automatic headers, air cocks, or open air pipes at the far end of the coils.

Air traps must be avoided. For control, one valve only is needed for each hot-water coil. This valve should be on the flow connection. In very short coils, however, it is sometimes found necessary to valve both connections, flow and return, to prevent the coils from warming up through the return connection. In steam fitting it is essential to grade the pipes so there will be no water pockets.

Good drainage is required absolutely. The current of entrained water should be with the current of steam and not against it. Piping should be so fitted that expansion may be taken up when possible by a springing pipe. Expansion joints should never be used when expansion may be compensated for in another way. Steam coils are generally constructed of one and one-quarter inch pipe, which size gives .43 square feet of surface per lineal foot.

The Chimney.

One of the most neglected parts of the greenhouse equipment is the chimney. Chimneys of greenhouses are frequently much lower than they should be to produce proper velocity or intensity of draft, and the flues are often smaller than necessary. Height is necessary for velocity of draft and large area of cross section to produce volume or quantity. Intensity of draft alone is not sufficient.

It is possible to consume coal and produce ashes without having accomplished complete combustion in the boiler. The greater part of the coal's value takes the form of gas. If the supply of oxygen induced under the grates is insufficient, the gas formed passes up the chimney unconsumed and is lost.

Do not be misled by the appearance of your fire, your ash pile, and the apparent velocity or intensity of your draft. Many heating boilers are condemned and thrown out, and many systems of piping are blamed for the misdoings of chimneys. The best flue is round. If the flue is square, the effective area is only that of a circle whose diameter is equal to one side of the square. Rectangular flues should not be used.

PEIRCE PAPER FLOWER POT

Replaces clay pot for transferring and delivery of plants without damage.

Under ordinary growing conditions will last two months or more in a greenhouse, making them available for growing many small plants.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

KING GREENHOUSES

Are supplied in 3 different Iron Frame Types; also in the Semi Iron or Pipe Frame styles, so we can offer you a strong, practical Sunny House at the price you can afford to pay.
Write us today—just tell us what you want and we will do the rest.

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

FOLEY
Builds Good Greenhouses
TRY HIM.
THE FOLEY GREENHOUSE MFG. CO.
N. E. Cor. 31st St. and Spaulding Ave.,
CHICAGO, Ill.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.





DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

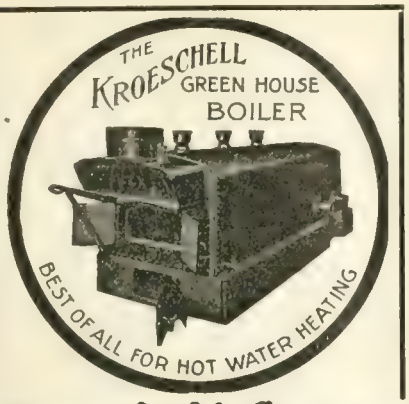
2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
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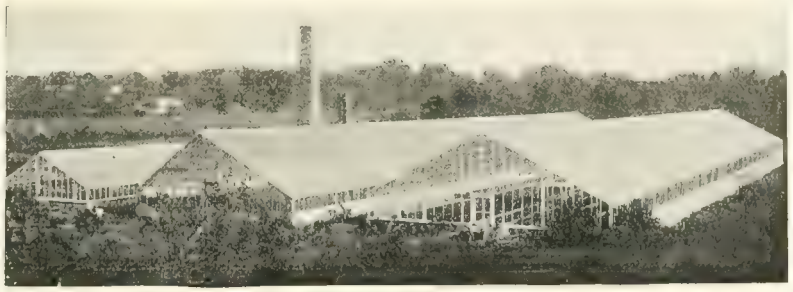
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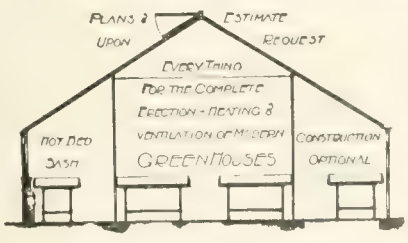
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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Dahlias

Nearly all the newer varieties that are worth raising grow amazingly fast after being once started in any ordinary greenhouse. In working up a stock of good dahlias from cuttings, the roots should be started into growth from the first week in March and cuttings should not go into the sand before March 25 or after April 15. The roots are started in a bench, or, if there is only a limited number of them, in boxes, planting them somewhat closely together in rich soil. Give them the fullest light and a temperature of not lower than 55 degrees. Of the new growth put forth only the stoutest and brightest looking shoots should be taken for cuttings. Placed in a few inches of well firmed sand with but little bottom heat, afforded good care as to spraying, shading and ventilation, these cuttings will be ready for pots in from two to three weeks. A dahlia cutting well-calloused and beginning to emit roots will make better headway than when left longer in the sand. A cool, light and amply ventilated house will be the place for them after that with plenty of room between the plants. Keep well watered and give them some room from time to time.

Carnations

Much of the success of the carnation grower depends upon proper care being given to the young stock in the earliest stages. The experienced propagator can usually tell almost to a day when his cuttings are fit to be taken out of the sand and potted. The beginner will probably have to lift a plant or two and examine them before commencing to pot. When half an inch, or even less, of root, has been made from the callous, the plants are ready to pot. When possible, have soil and pots near the propagating bench, so as to prevent the drying out of the roots. The dry, cool air and drafty conditions of the ordinary potting shed are not good for the tender young rootlets. For a compost use that which you cut last fall and mixed with manure at the rate of three loads of sod to one of cow manure. In potting, make the soil tolerably firm by pressure of the thumbs, and finish just below the rim of the pot. Coming, as they do, from the shade of the propagating bench, the young plants cannot at first stand full exposure to the sun, so, if the weather is bright, they should be lightly shaded. Newspapers answer the purpose, though a line of muslin about a foot or so above the plants is better. Keep at about 50 degrees at night. Watering is a subject upon which no definite instructions can be given. As a general rule, I like to be able to water the young plants once daily.

Gardenias

To successfully flower gardenias now requires considerable skill. It is at this season more than at any other when gardenias, well forward and full of promise, are very ready to drop their buds on the slightest provocation. There will be little of this trouble where the plants are in a house by themselves and under the close surveillance of an experienced grower. The loss in buds will be small in any house where the maintenance of 65 degrees of heat, with little or no deviation either way, presents no difficulty. A temperature uniform and steadily held, even if a trifle lower or higher than the normal means everything in the perfect development of gardenia blooms. A daily light spraying of foliage and buds serves the two-fold purpose of keeping the plants bright and clean and the atmosphere from becoming too dry. Tempered water, if possible, should be used. This is also the season when injudicious and careless watering has the most telling effect on gardenias. Where the plants are growing in thoroughly drained benches or pots, and where the planting has been done in a correct manner, insuring a stand just right as to base of stem merely touching the soil, there will be less danger from overwatering than from insufficiency of water, either excess being the immediate cause of the dreaded "yellows," the principal bugbear in gardenia culture.

Lilies for Easter

It is usually calculated that it takes six weeks for a lily flower to develop from the time the bud first shows. It can be done in less. I would prefer to have six weeks, yet it can be done in four. To have them right for Easter they should show their buds by the first week in March which will give you plenty of time in which to finish up in a cooler temperature. Where lilies are thus far advanced they will need but little pushing, 60 degrees being high enough for the present. But those that do not show their buds by this time should be given 65 degrees and then gradually raise it to 70 by the end of March. There is no plant that loves syringing more than does a lily, yet no plant resents more quickly an over supply of water at the roots. On a bright day syringe two or three times. Where liquid food is applied with caution it proves of benefit while buds are swelling.

Orchids

Calanthes make a superb orchid for the florist. They produce an abundance of showy flowers that last a long time in perfection. Prepare flats with plenty of crocks over the bottom and on this spread a layer of moss, then fill with sharp sand. The bulbs can be placed in these flats quite close together in a temperature of 65 to 70 degrees at night. When they have made root and top growth they can be potted, one bulb to a 5 or 6-inch pan or three bulbs to an 8 or 9-inch pan. Fill pans one-third full of crocks. A compost of fibrous soil and well dried and decayed cow manure in equal parts, to which may be added some peat and silver sand will grow them well. Pot them firmly, tying the bulbs to short stakes to keep them steady. In their growing season they require a pot and moist house of about 65 degrees and when growth is complete a cooler house will be more beneficial. They are subject to thrips, which must be continually searched for and destroyed by sponging the plants over often.

Mr. Farrell's next notes will be on the following: Care of Chrysanthemums; Young Carnations; Bulbous Stock for [illegible] beds; Fancy-Leaved Caladiums; Starting Cosmos.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Snow

It may have seemed quite commonplace to mention the snow in these columns, some time back, yet there were some houses that met with disaster just because the snow could not be removed in time. They were mostly very wide houses, houses too wide in fact to suit our taste. We are of the opinion that the wide houses remain handy and easier to work only when the width and length are not carried to extremes. A house 72 ft. wide is as wide as we want any house to be, and we think that any house wider than that cannot be handled without more expense per square foot than the narrower houses. Of course where other flowers or vegetables are grown this may be different, but, with roses, give us houses from 30 to 72 ft. wide. It is very unfortunate that some growers met with heavy losses during the recent heavy fall of snow, and we hope that just such misfortunes will help to keep us prepared to meet any blizzard or heavy snow with the proper equipment to battle with it. Many growers will make the mistake and build their houses too close together. Where space is very limited this may be all right but where there is plenty of ground we would much rather keep the houses far enough apart to allow all the snow that may slide off the roof to fall to the ground instead of piling in between the houses, and gradually climbing up to the ridge, and causing the house to carry a very heavy load. Whenever necessary, shovel all the snow away from the eaves, even though this has to be done at night. It is labor well spent, and may save several thousands of dollars. Where it is not possible to do that, and the houses appear to be sagging under the weight of the snow try and brace them up from the inside, and run the thermometer a few degrees warmer than is customary. This will help melt some of the snow, and will greatly relieve the pressure. Start this as soon as it starts snowing hard so as to keep the glass clear if at all possible.

Shifting the Young Plants

The young plants that had been potted up early in February will now be starting to grow very nicely, and it is best not to wait until they are somewhat pot-bound before shifting them into larger pots, and richer soil. A little more bone meal can be added to this soil, as the plants have the roots now, and they are able to stand a little more feed. A larger portion of manure can also be mixed into the soil, as the days will now be longer and let us hope a little more sunny, and there will be little danger of getting the plants too wet. In repotting make sure that all the space between the ball of the plant and the pot is securely filled with earth so that there will not be any chance of its being left empty. Tip a plant out of a pot once in a while to see how the potting is being done, and note carefully how the soil is firmed. If the plants are potted as they should be the soil will be well packed in the bottom of the pot, and gradually become more loose toward the top. Then note the plant potted wrong where the soil is loosely thrown into the bottom of the pot, and is firmed well at the top, so well in fact that the water applied has a hard time of it getting through to the bottom of the pot. The soil on the surface will always pack down with the watering that the plants will get. Needless to say all soil used for the repotting should be well screened, and never be in lumps. It should also be moist, with no dry spots in it, also free from dry lumps. If the soil becomes too dry before potting, it should be turned over after being sprinkled, and then sprinkled and mixed until it is wet enough to moisten all the way through when it is allowed to lie in a heap a while. After a few hours thus, it will be in excellent shape for potting.

Setting the Plants on the Benches

There are various ways of setting plants on the benches after repotting. The most ordinary way is to set the plants on the bench just as they come. This is very far from being the proper way, as experience will teach us, and a much better way to do is to set the smaller plants to the front of the bench, nearer the glass, setting all the taller and more vigorous plants to the other side, or the north side where the houses run east and west. This will help in more ways than one, as the smaller plants will have the benefit of the additional light, and will have all the show to make something out of themselves, where if they were mixed in among the other plants they would be unable to make any headway. The taller plants will also take more water, so they will make up for what will dry out with the plants along the edge of the bench. It is a pleasure to see a house full of young plants, especially Beauty, that have been well-graded and are growing so that the tops of them all slant like the roof of the house toward the south. Plants set in this way are much easier to handle, and they will be stronger, even though some may be higher than others.

Preparing the Benches

As soon as the old plants are taken from the house, remove some of the soil, say two inches or so. Then scatter plenty of air-slacked lime over the soil and apply a good coat of screened ashes. The object of having the lime in the bench is to keep the worms that may be in the soil from crawling through the ashes into the soil in the pots. This is very important as the plants will not thrive where there are earth worms in the pots. These will soon make the pots sticky, so that the soil they hold will not drain real good, and of course that spells trouble. If you have some plants that seem to be bothered with this, give them some lime water as we have advised in these columns before. This will either kill the worms or it will drive them out of the pots. Sometimes you may wish to remove all the soil from the benches, then it will be necessary to lay some newspapers on the bench before applying the ashes. These papers may seem very thin, but they will hold the ashes well, and keep them from sifting through if they are not disturbed. Of course, if after watering the papers should be disturbed they will all go to pieces, and be of very little account.

Dictamnus

One of the characteristics of the plant material of the herbaceous garden is the marked diversity in specific treatment. Generalization in regard to culture is simply out of question. The absence of rules to go by necessitates close study and the growing intimacy with our subjects deepens our interest. Phlox paniculata, if left longer than three years without enriching the soil, dividing and transplanting, begins deteriorating; the flowers become smaller and the color lacks the original brightness. It is much the same with heleniums, helianthus and rudbeckias. An attempt to treat peonies, funkias, oriental poppies or yuccas in a similar way would result in the opposite. We would never be able to enjoy the stately specimens in which many old gardens take pride. Spirea aruncus, as a rule, is twice as beautiful in its eighth year as a four-year-old plant and I shall never forget the wonderful sight of a gigantic specimen of Heracleum barbatum, about 20 years old, bearing its immense white umbrella-shaped flowers on thick stalks nearly 6 feet high.

The subject of today's notes, Dictamnus fraxinella, also belongs to those species improving with age. Habitual growth as well as the ornamental character of foliage and flower spikes are shown by our illustration, a reproduction of a photograph taken by your correspondent in the hardy plant section of Henry A. Dreer, in ,Riverton, N. J. The specimen, I judge is at least 10 years old. Dictamnus fraxinella is in bloom during June and July. The blossoms are of a very desirable rosy pink, while those of the variety fraxinella alba appear in clear white. Dictamnus fraxinella caucasicus is a form of considerable larger dimension but in color similar to the well known fraxinella; average height from 2½ to 3 feet. As a curious peculiarity, we notice the foliage and flowers during hot weather giving off a fragrant volatile oil, which ignites when a match is applied to it, hence the popular name, "gas plant."



DICTAMNUS FRAXINELLA.

Being highly ornamental border perennials the reason for the present comparative rarity of strong specimens in gardens, I fear, is attributable to frequent transplanting or other detrimental disturbing of their development. The value of matured specimen plants of species distinguished by longevity is self-evident, for they represent treasures well worthy to take pride in. For permanent position the dictamnus varieties require a rich and rather heavy soil and an open sunny exposure. They may be raised from seed or propagated by divisions. For winter protection I have used leaves, the thickness of covering being governed by the climatic conditions.

Richard Rothe

Riverton, N. J.

MASSACHUSETTS AGRICULTURAL COLLEGE.

The short course in floriculture at the Massachusetts Agricultural College has been in progress since the first week in January. Twenty-three students are enrolled, this being the largest registration since the establishment of the course. Other states as well as Massachusetts are represented, two of the students coming from Vermont and one from Ohio. Several members of the class have had considerable experience in greenhouse work while others are beginners. Clark L. Thayer, a graduate of M. A. C., and assistant in the Department of Floriculture, is in charge of the work. Particular attention is given to the chief florists' crops such as roses, carnations, violets, and chrysanthemums. Other subjects which are taken up are greenhouse construction, heating, glazing, and as far as possible practical work is given along with the lectures, including propagation by cuttings, rose grafting, etc. Field trips which are taken to commercial greenhouse establishments of which there are so many in the vicinity of Amherst form one of the features of the course; a few of the ranges which have been visited are those of A. N. Pierson Company of Cromwell, Conn.; Butler & Ullman of Northampton, Mass., and the Montgomery Brothers of Hadley. An annual trip is also taken to Boston to visit markets, stores, commercial ranges, and private estates in that vicinity.

INJURIOUS MULCHING.

Referring to the communication on page 143, in our Jan. 31 issue, wherein a grower admits having top-dressed his roses with a mixture of wood ashes and Clay's fertilizer, and Mr. Ruzicka's comments thereon, Gustav Olson writes as follows:

"It ought to be apparent to anyone qualified to answer such a question that wood ashes (caustic potash) or lime (caustic lime), with any organic fertilizer or manure, as that liberates the ammonia and turns it into gas that burns the roots and if applied as a top-dressing will even burn the foliage."

In a recent issue of the Rural New Yorker, Charles E. Thorne, of the Ohio Experiment Station, writes as follows:

"If manure and lime are mixed and at once plowed under the earth will probably arrest most of the ammonia that may be formed; but if the mixture of manure and lime is exposed to the air there will be considerable escape of ammonia into the atmosphere.

"In the case of ashes, the lime is first in the form of oxide or quicklime, which reverts to the carbonate form on exposure to the atmosphere, so that fresh ashes would have the same effect as quicklime in liberating ammonia. Ground limestone would have less tendency in this direction, but we think the safest plan is to apply all kinds of lime or limestone separately from manure or fertilizers."

BOSTON PARK DEPARTMENT.

One of the first acts of Boston's new executive, Mayor Curley, was to dismiss D. Henry Sullivan, as chairman of the Boston Park and Recreation Commission, and appoint John M. Minton to fill the office until a permanent successor should be appointed and confirmed. The mayor has now named John H. Dillon for the position. Mr. Dillon has been long connected with the department as foreman of the Public Garden. Confirmation by the Civil Service Board is required before Mr. Dillon can assume his position as Chairman of the Commission.

O March that blusters and M[illegible] blows
What color under your foots[illegible]
Beauty you summon from [illegible]
And you are the pathway [illegible]
the rose. —[illegible]

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Unionizing the florists?

Organizers of the "Florists' Union of America" have been at work among the florists, gardeners, designers and flower salesmen of New York City, seeking to form a local union and enroll members. We are informed that a meeting has been called for March 9. Just how this new movement will be received by the interests named we do not pretend to foresee. But it is our opinion that there are organizations enough already and what is needed is to bring what we have up to the highest possible efficiency and to promote the welfare of all by a closer co-operation between the existing representative bodies throughout the country. The intrusion of the union organizers will hardly be welcomed by the profession and the proposition will be found a very difficult one to handle according to union methods.

They're at it again

A versatile correspondent of the Philadelphia Public Ledger, philosophizing on the vast difference between the profit on mining coal, which the census says is seven cents per ton gross, and the profit made by the florist on his goods, states that "a big Philadelphia florist" told him that "when he sells the retail man $1.00 worth of flowers the latter charges an average of $3.00 to his customers for them." Every little while this spook continues to be dragged out for scare-crow use on the public. When will our florists learn not to feed the newspaper correspondents with this sort of stupid misrepresentation which is invariably used for the purpose of discrediting the florist business and to make it in the estimation of the public a synonym for reprehensible extortion?

Flowers real and artificial

As the date for the big New York Flower Show draws near, we hear again the customary protests against the displaying of artificial flowers. In connection with the trade exhibitions at the S. A. F. conventions we have been disposed to favor the florist supply dealers, who include much of this material in their general displays, our contention being that these trade exhibitors are of financial value to the Society, being among the largest buyers of space, and that, paying for the privilege as supply dealers, they should be permitted to show any material which they are accustomed to sell to florists, many of whom attend the conventions for the express purpose of seeing the goods that the supply dealers have to offer. But in the case of a public flower show we can see a decided incongruity in exploiting imitation flowers for popular scrutiny and we are heartily in accord with the sentiment that would keep these things out of sight of the public. Artificial flowers have their legitimate uses, and it is no discredit to a supply dealer that they are a material factor in his business, but it is never one of their legitimate uses to take the place of fresh flowers where these can properly be used. In exploiting his business before the public, every florist must, of course, be his own judge as to whether or not he will use these goods in his usual course of business and deck his place with imitation finery and tinselled trash or degrade an undefiled carnation with a coat of paint and then lie to his customers as to the origin of its tawdry green tint, but all this can and should be debarred from the public flower show. The supply dealer will not suffer by the restriction for he has a wealth of beautiful baskets, vases, jardinieres and other flower and plant receptacles and no end of dainty and useful accessories to give a pleasing and graceful finish to floral work, and it is our belief, after a heart-to-heart talk with the most eminent florist supply dealers, that they fully appreciate the situation and are ready to accept the restrictions proposed. In the long run the supply man will lose nothing by thus helping the florist to hold his position with the public as a florist and not as a dealer in cheap imitations and gimcracks.

A TRIO OF TOTTY NOVELTIES.



Crawford Yellow—Petit Louis—Miss F. Collier.

A DREER SPECIALTY.



Hydrangea Chautard.

ROSE GROWERS, ATTENTION.

The American Rose Society, through their committee in conjunction with a committee appointed by the Society of American Florists, now feel ready to launch the establishment of two Experimental Rose Gardens, one in connection with the Department of Agriculture at Washington, D. C., and one at the College of Agriculture at Cornell University, Ithaca, New York; and in this connection they ask the co-operation of rose growers throughout America. In conjunction with this invitation will be found statements from both these institutions, indicating their readiness to proceed with this proposition.

It is proposed that credit shall be given in each garden to all firms contributing to its success, but it is not proposed to make public any statement showing which varieties were contributed by any firm. In this way it is hoped that all rose growers in America may be placed on the same footing without favoritism being shown to any one, or any group of growers.

Rose growers everywhere will be quick to see the advantages likely to spring from these Experimental Gardens. We are fortunate to have one in a district representative of the colder sections while results in the other may be taken as a criterion for the warmer sections of our country. We are fortunate in each case to have the backing of institutional care that shall be impartial in its co-operation and ensure the continuity of effort so essential to an enterprise in which real success can be measured only after a term of years. Furthermore, both institutions are in position to issue bulletins and, for the benefit of all concerned, spread dependable information regarding Roses.

Therefore, the American Rose Society and the Society of American Florists, through their Committees, hereby appeal to the rose growers of America for contributions of all such varieties as they are willing to present for these two gardens. The Committee ask that they be furnished by each firm, with a list of such varieties as can be supplied this spring, such list to be in the hands of the first name here undersigned, not later than March 15. The Committee require good, strong dormant stock where available, otherwise stock well established in not less than 4-inch pots. Dormant stock must be in Washington not later than April 1, and at Ithaca April 15. Roses from pots, not later than May 1 at Washington, May 15 at Cornell. There will be required eighteen each of the bedding types of roses, including the H. Ps., Ts., H. Ts., Bourbons, Chinas, Polyanthas, etc. and of the Rugosas, Sweet Briars, or any of the climbing types, five each.

Delivery instructions will be issued later. It is the earnest desire of the Committee, if possible, to have every firm of rose growers in America represented by plants in these Gardens.

ALEX CUMMING, JR., Chairman Committee American Rose Society, WM. F. GUDE, Chairman Committee Society of American Florists.

Send your list to: Alex. Cumming, Jr., care A. N. Pierson Co., Cromwell Conn.

Communications Received.

(Copy.)

UNITED STATES DEPARTMENT OF AGRICULTURE.
Bureau of Plant Industry.
Office of Assistant Chief of Bureau.
Washington, D. C., February 14, 1914.

Mr Alexander Cumming, Jr., Chairman, Committee, American Rose Society.
W. F. Gude, Chairman, Committee, Society American Florists and Ornamental Hortículturists

Dear Sirs: With further reference to the letter of the Acting Secretary to your Committee addressed to Mr. W. F. Gude, under date of August 16, 1913, the ground proposed to be devoted to a rose garden at Arlington Farm in conjunction with your societies, is now available for that purpose and the Bureau of Plant Industry stands ready to push the work of planting as soon as the stock arrives and the weather is suitable.

The objects to be gained from the Department's standpoint are the possibility of researches in the heredity of cultivated roses, and also the adaptability of roses to climatic conditions similar to those of Washington.

Very truly yours,
(Signed) L. C. CORBETT,
Assistant Chief of Bureau.

(Copy.)

NEW YORK STATE COLLEGE OF AGRICULTURE.
Department of Floriculture.
Ithaca, N. Y., February 19, 1914.

Mr. Alexander Cumming, Jr., Chairman, Committee, American Rose Society.
W. F. Gude, Chairman, Committee, Society of American Florists.

Gentlemen: The rose garden area on the grounds of the Department of Floriculture at Cornell is in excellent condition to receive the plants this spring. The Department has the facilities to properly care for the stock immediately upon arrival and to plant as soon as weather conditions permit. The undersigned will give his personal attention to the details of the rose trials. An investigation of the botany, evolution, breeding, etc., of the hybrid Wichuraiana and rambler roses is already in progress. It is proposed to make similar studies as to the adaptability of all classes of roses suitable to the climate of central New York. Particular attention will be given hybrid perpetual, hybrid teas, polyanthas, rugosas, and the hardy climbing types.

Yours truly,
(Signed) A. C. BEAL,
Professor in Charge of Floricultural Investigations.

FRENCH SEEDLINGS INFESTED WITH BROWN-TAIL MOTH NESTS.

Editor HORTICULTURE:

Dear Sir—We are advised, through the office of the Department of Agriculture of the State of New York, of the finding of considerable infestation with brown-tail moth nests containing living larvae in shipments of seedling stock from France, notably from the Angers District, several of these shipments coming from The Franco-American Seedling Company and others through Irving Rouse. A single box has contained as many as seven brown-tail moth nests. This indicates very careless inspection of the material from this quarter of France, and action has been taken to remedy this state of affairs.

All inspectors are strongly urged to make a thorough examination of all seedling stock from France, for it must be true that if such infestation is found in shipments coming to New York, similar infestation is likely to occur wherever such seedling stock is received.

C. L. MARLA
Chairman of Federal Horti

CLUBS AND SOCIETIES

FLORISTS' CLUB OF PHILADELPHIA.

Richard A. Vincent's talk on geraniums was the main feature of the regular monthly meeting. An eloquent discourse of fine interest and beautifully illustrated on the screen, with all the newest and best in the "Flower of the Masses." As Mr. Vincent said, we cannot get away from this good old standby, and in all cottage gardening and village improvement work we must not forget the A. B. C. for the beginner in gardening.

At the next meeting there will be a talk on fertilizers by an expert. A letter of thanks was read from the "seceders." They will now meet at the Poor Richard Club—and thus shake off all affiliation. We are sorry we did not have the Apostle of Affiliation with us to hear this. We can imagine how he would have made the welkin ring out with "E Pluribus Unum."

A splendid chance neglected right at his own door, instead of that far off rainbow he is chasing! The time to say "United we stand," is before we part company. Franklin's words are as true now as they ever were:

"If we don't hang together, we are liable to hang separately."

CONNECTICUT HORTICULTURAL SOCIETY.

Our February 27th meeting was assigned to the carnation. Peter Fisher, of Ellis, Mass., exhibited about fifty blooms of Gorgeous. Patten & Company, of Tewksbury, Mass., showed a vase of their magnificent Princess Dagmar. Theodore Staudt, of Rockville, also exhibited a number of carnations, viz., Dorothy Gordon, Mrs. C. W. Ward, Beacon, Enchantress, White Enchantress, White Wonder, etc. The judges awarded first-class certificates to Gorgeous and Princess Dagmar, and a cultural certificate to the mixed varieties. During the evening Alexander Cumming, Jr., brought in a vase of the new Hadley rose from the Pierson Greenhouses of Cromwell, Conn. The fragrance of these blooms was indescribably sweet. Mr. Cumming also exhibited two vases of carnations from the Pierson Greenhouses which received a cultural certificate. The secretary was instructed to write a letter, extending to the out-of-town exhibitors a most hearty vote of thanks for their excellent display of carnations. The meeting was largely attended and greatly enjoyed by all present.

ALFRED DIXON, Secretary.
Wethersfield, Conn.

OYSTER BAY (N. Y.) HORTICULTURAL SOCIETY.

The regular meeting of the Oyster Bay (N. Y.), Horticultural Society was held on Wed., Feb. 25. A letter was read from the Country Life Permanent Exposition inviting the members to attend the flower show, also stating that Friday, March 6 would be Gardeners' day. All those who were inclined to show were advised to enter at once. The judges made award as follows: J. Duthie, first for cyclamen; John Sororsie, first for narcissus; Frank Petroecia, first for Whitlof chicory. James Duthie received honorable mention for a fine exhibit of Primula malacoides a great improvement on the ordinary type, also for a collection of pink freesia. James Duckham received honorable mention for an excellent pot of Lilium Harrisii, which showed skilful growing and John Sorosie, for some very fine petunias.

James Duthie gave a very interesting talk on cyclamen growing and answered several questions in respect to the cyclamen grub. James Duckham spoke on Lilium growing and John Sorosie spoke on narcissus forcing. John Ingram and Joseph Robinson were accorded a hearty vote of thanks for their work at the dinner. The secretary was also instructed to write to Burnett Bros. and thank them for the music they rendered at the dinner. The executive committee was instructed to arrange for a euchre and dance to be held Easter Monday. President John Ingram gave a very interesting lecture on orchids which was greatly enjoyed. He also exhibited a very interesting collection of cattleyas.

A vote of sympathy was accorded to Mr. and Mrs. Walker on account of the sickness they have had in the family.

James Duthie will give us a lecture on dahlias at the next meeting. Exhibits will be 100 single violets; 12 iris; 1 pot cineraria.

F. KURKMAN, Sec.

NEW BEDFORD HORTICULTURAL SOCIETY.

The regular monthly meeting of the New Bedford Horticultural Society was held Monday evening, March 2. The schedules for the season's shows were completed and referred to the executive committee. The committee plans to have schedules ready for intending exhibitors early in April. An interesting discussion followed concerning the merits and demerits of the freezing process for keeping cut flowers. One member told of having a bunch of paper white narcissus frozen solid into a pitcher of water and when thawed found they were absolutely unharmed, except for the absence of odor, and the flowers kept in fine condition for ten days.

H. A. Jahn exhibited a vase of a seedling carnation from plants which had been absolutely frozen for six days. At the time of a cold snap in January the roof of his carnation house was blown off and the plants exposed to the rigors of a high wind and a temperature of 2 degrees below zero for several hours. The plants remained in a frozen condition for six days and when finally thawed all were black except this one variety. Snow was used in the thawing process. The flowers exhibited were in fine condition, foliage good and stems rigid.

WM. F. TURNER.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

President Theodore Wirth directs me to call a meeting of the Board of Directors of the above society at the Parker House, Boston, March 17. The first session will be called to order promptly at nine o'clock Tuesday morning, the 17th.

President Wirth also directs me to request all State Vice-Presidents and Secretaries of the different Florists' Clubs to communicate with this office at once, stating any business that they would like to have acted upon at the meeting ,of the Board of Directors. President Wirth is especially desirous that all Florists' Clubs make a report to me at once as to what their respective organizations are doing in regard to affiliation.

JOHN YOUNG, Secretary.

TEXAS STATE FLORISTS ORGANIZE.

A call has been issued for the organization of a State Florists' Association for Texas. The call as issued follows:

"We, a representative committee of the Texas florists, hereby issue a call for a meeting at Waco, Texas, Monday and Tuesday, May 4 and 5. All florists, landscape architects and others interested in floriculture commercially are invited and urged to attend this meeting. This organization means a great deal for the florists of the state and it no doubt will be the greatest gathering of florists ever held in the South. Be present and help organize the largest state florists' association in the United States.

"The above action is the result of a thorough canvass by letter of the florists of the state, all of whom are heartily in favor of and urge a state organization. This organization is entirely independent of any local organization that may exist in any of the cities.

"You will be kept posted through the press regarding the details of the meeting. Respectfully yours,

"State Organizing Committee of Texas Florists' Association.
"Robert C. Kerr, State Chairman."

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Spring Flower Show of the Massachusetts Horticultural Society, will be held at Horticultural Hall, Boston, Thursday to Sunday, March 12 to 15 inclusive.

Notable features of this exhibition will be a magnificent display of spring flowering bulbs and Easter plants, together with Indian azaleas, heaths, roses, carnations, and sweet peas.

Many rare and beautiful tropical plants from the private greenhouses of Boston and vicinity will be exhibited and there will be in addition collections of fruit and vegetables.

The interest in dinner table floral decorations warrants the continuance of this feature of the exhibitions of

"Get them at Dreer's"

Tuberous Rooted Begonias, Gloxinias, Fancy Leaved Caladiums

Our Usual Superior Strain

You Can Buy Cheaper but Not Better Stock.

BEGONIAS, Single in Separate Colors. Scarlet, crimson, rose, white, yellow and orange, 40c. per dozen; $2.50 per 100; $22.50 per 1000.

BEGONIAS, Single in Choicest Mixture. 35c. per dozen; $2.25 per 100; $20.00 per 1000.

BEGONIAS, Double in Separate Colors. Scarlet, rose, white and yellow, 60c. per dozen; $4.50 per 100; $40.00 per 1000.

BEGONIAS, Double in Choicest Mixture. 50c. per dozen; $4.00 per 100; $35.00 per 1000.

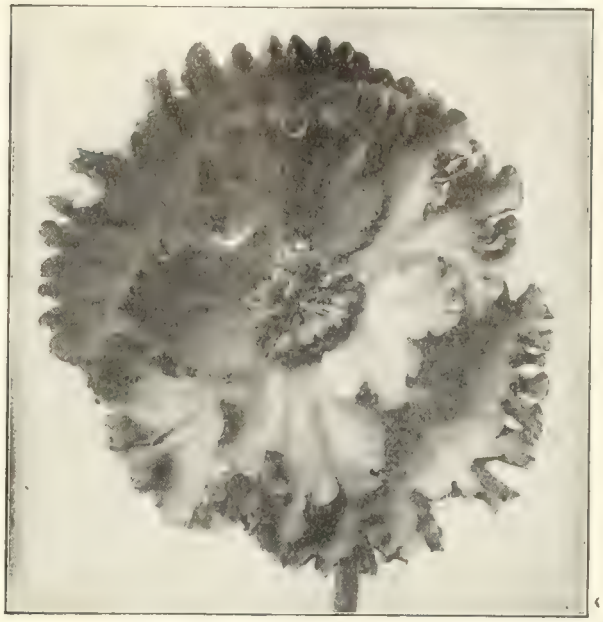
BEGONIAS, Frilled in Separate Colors. Scarlet, white, pink and yellow. These are with wavy and frilled petals, like some of the newer Petunias. 85c. per dozen; $6.00 per 100.

BEGONIAS, Dwarf Hybrid Lafayette. Brilliant crimson-scarlet, $1.50 per dozen; $12.00 per 100.

BEGONIAS, Dwarf Hybrid Duke Zeppelin. Pure rich scarlet, $1.25 per dozen; $8.00 per 100.

CALADIUMS, Fancy Leaved. The finest collection and the most extensive stock in America. Choice Standard Varieties, $1.75 per dozen; $12.00 per 100; $ 00.00 per 1000. Choice Rare and New Varieties, $2.25 per dozen; $15.00 per 100; $140.00 per 1000. Recent Introductions, $3.50 per dozen; $25.00 per 100. Choicest Mixture, $1.50 per dozen; $10.00 per 100; $95.00 per 1000.

GLOXINIAS, Dreer's Superb in Choicest Mixture or in Separate Colors. As blue, red, white, red with white edge, and blue with white edge, 60c. per dozen; $3.50 per 100; $30.00 per 1000.



FRILLED TUBEROUS BEGONIA.

HENRY A. DREER, Inc. 714-716 CHESTNUT STREET PHILADELPHIA, PA.

The Above Prices Are Intended for the Trade Only.

De Graaff Bros. Ltd.

Leiden, Holland

Daffodils
Early Tulips
Darwin Tulips
Mayflowering Tulips
Iris
Gladiolus, etc.

Catalogue free on application

WALLFLOWERS

Golden Dresden, Private Strain, the best of all for cut flowers. Can be had in bloom by October. Strong Transplanted Seedlings ready for 2½-in. pots, $1.00 per 100 by mail, $6.00 per 1000 by express, 250 at 1000 rate.

W. A. FINGER, HICKSVILLE, N. Y.

HEACOCK'S KENTIAS



JOSEPH HEACOCK COMPANY
WYNCOTE, PA.

Poinsettia Pulcherrima

Nice strong plants from 2 1-2-in. pots, $6.00 per 100; $55.00 per 1000
AZALEAS, CYCLAMEN, LILACS
A. SCHULTHEIS
COLLEGE POINT, N. Y.

ORCHIDS

Imported and Potted

FREEMAN ORCHID COMPANY
FALL RIVER, MASS.

Asparagus Plumosus Nanus SEEDLINGS

The true kind from seed saved from my own plants

$10 per 1000

W. H. ELLIOTT
BRIGHTON, - MASS.

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

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LAGER & HURRELL. Summit, N. J.

ORCHIDS

ESTABLISHED PLANTS AND FRESHLY IMPORTED

Julius Roehrs Co.
Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England
and 258 Broadway, Room 721 NEW YORK CITY

recent years and the displays at the spring show will exceed those of any previous year.

The exhibition will open on Thursday, March 12, at noon, continuing through Friday and Saturday, from 10 A. M. to 10 P. M., and on Sunday from 2 to 10 P. M.

The first Corps of Cadets Orchestra will furnish music every evening from 7.30 to 9.30, and on Sunday afternoon from 3 to 5.

WM. P. RICH, Secy.

CLUB AND SOCIETY NOTES.

The next meeting of the Essex Co. (N. J.) Florist Club, March 19th, will be Ladies' Night, with a banquet.

The St. Louis Florists' Club will meet on Thursday, March 12th, in Odd Fellows' Hall. It is going to be an important meeting and Secretary Beneke's notices request all members to be present at 2 o'clock prompt.

The New Haven (Conn.) Horticultural Society has appointed John H. Murray, J. Kydd and R. Paton a committee to prepare plans for biweekly exhibits in competition for a gold medal which has been offered by Lord & Burnham Co.

At the annual meeting of the New England Nurserymen's association held in Hartford, Wednesday, Feb. 25, John R. Barnes of North Main street and junior member of the firm of Barnes Bros., of this place, was elected president of the organization for the ensuing year.

At the recent meeting of the North Shore Horticultural Society, at Manchester, Mass., after the talk on Greenhouse Building by Fred Elder, there was an interesting discussion on the acceleration of circulation in hot-water heating system, etc., by the Castle Circulator, pumps, etc.

The meeting of the New Jersey Floricultural Society at Orange on Monday evening Mar. 2, had a very poor attendance on account of the storm. Vice-president Henry Halbig occupied the chair in the absence of the president. We had quite an interesting meeting, and proceedings were taken on the Annual Dahlia, Fruit and Vegetable Show to be held in October. A prize of $5 was awarded to Max Schneider for a fine specimen of Begonia Glory of Cincinnati and $3 to John Hoffman for a splendid vase of sweet peas.

GEO W. STRANGE, Secy.

The combined meeting of the State Florist Associations of Illinois and Indiana will take place at Danville, Ill., on Tuesday and Wednesday March 10 and 11. The Danville Florists' Club are making big preparations for the entertainment of the visitors. The program is as follows:

Introductory remarks, by H. E. Smith, president Danville Florists' Club.

Address of welcome, by Mayor Lewman.

Response and welcome to the Indiana State Florists' Association, by A. C. Kohlbrand, Chicago.

Response by W. W. Coles, Kokomo, Ind.

President's address, by Charles Loveridge, Peoria, Ill.

Report of secretary, by J. F. Ammann, Edwardsville, Ill.

Report of treasurer, by F. L. Washburn, Bloomington, Ill.

Unfinished business, new business, public exhibition, remarks by visiting Indiana florists, general discussion, nomination and election of officers, adjournment.

THE INTERNATIONAL FLOWER SHOW AT NEW YORK.

The perfecting of arrangements for the big Flower Show in New York, March 21st to 28th, in the New Grand Central Palace, proceeds apace, and the prospects are that the show will be like its predecessor, an immense success.

At the last meeting of the committee in charge, contributions of several special prizes were reported. Silver cups, valued at $75 each, have been offered by the following hotels in New York: The Ritz-Carlton, McAlpin, Biltmore, Vanderbilt, Plaza, Waldorf-Astoria, St. Regis, and Sherry's. Mrs. H. Clay Frick and Mrs. C. F. Seuff have contributed cups valued at $100 each. Mrs. Stuyvesant Fish and Mrs. C. F. Hoffman have offered cups valued at $50 each. The latter four cups were donated through the solicitation of Mrs. Hoffman and the International Garden Club. Samuel Thorne offers a cup valued at $50 and W. T. Carrington a cup valued at $75. An anonymous member of the Horticultural Society of New York offers a cup valued at $25, and H. H. Charles offers a cup valued at $50. Joseph A. Manda of West Orange, N. J., has been appointed manager of the show. George V. Nash, C. H. Totty, and W. A. Manda have been appointed a committee on lectures.

Among the important features of the show will be an orange grove in fruit, and a most complete Japanese garden, both staged by retailers. The Ladies' Orchestra, which was a feature of last year's show, has been engaged for the show this year.

To date upward of $12,000 worth of Trade Exhibition space has been sold, and about $3,000 worth of space has been taken up in the Souvenir Program. Intending exhibitors should lose no time in taking up locations as there are still a few choice positions available.

J. H. PEPPER
Chairman of Publicity Committee.

The Additional Preliminary Schedule in the Plant and Cut Flower Sections of the International Flower Show, which has just been received, tabulates a large number of tempting premiums for miscellaneous cut flowers, table decorations, winter flowering sweet peas, carnations, orchids, roses, as well as additional plant premiums, in separate classes for commercial and private growers. All who are interested can have a copy by writing to the secretary, John Young, 53 W. Twenty-eighth street, New York City. The prizes are very liberal and will be captured by somebody; why not you?

I wish to call attention to the terms and conditions by which trade tickets may be bought for the coming International Flower Show, to be held in New York, March 21-28, 1914.

Tickets in blocks of 25 to 100 may be purchased with the words "Compliments of" and then your firm name inserted, at the rate of twenty-five cents each. In blocks of 100 or more similarly worded, the price will be $20.00 per hundred. The sale becomes absolute; the price is net, and there will be no rebate for unused tickets; tickets are to be paid for when received by the purchaser.

As a great many orders are being received for these tickets, at the present time, we wish that all who desire such tickets would, to avoid any disappointment or delay, kindly let me know immediately how many tickets they want.

JOHN YOUNG, Sec.

PUBLICATIONS RECEIVED.

Success With Hens, by Robert Joos. Poultry raising is receiving a lot of attention these days, and deservedly; for this "billion dollar industry" is an important one, ranking next to corn in the United States census report of land products. This book, just published by Forbes & Co., Chicago, at the very liberal price of $1.00, will do much to assist anyone who wishes to undertake poultry raising in its various branches with a view to making it a success and profitable. The fifty-five chapters give full directions for the hatching and brooding of chickens, incubation, feeding and housing, increasing the egg supply, cure of diseases, the marketing of eggs and fowls and everything pertaining to the care of hens. Nothing is given but the best methods and only those which have been proved by the experience of successful poultry keepers. The small and large poultryman, the beginner and the experienced, will find this book indispensable. It will reduce losses and increase profits. It is inspiring, practical and up-to-date.

The Back Yard Farmer, by J. Willard Bolte. Published by Forbes & Co., Chicago, Ill. This is more than a "backyard" manual; it embraces in its contents the whys and wherefores, the ways and means of both front and back yards, the windows and the piazza. It is full of enticing informa-

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Is maintained for the purpose of providing opportunities for efficient and ambitious men engaged in the profession of gardening.
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M. C. EBEL, Secretary - - - Madison, N. J.
NATIONAL ASSOCIATION OF GARDENERS

tion given in very concise and effective style. The seventy-five chapters of this useful book give complete and reliable directions for the best cultivation of vegetables, fruit and flowers, the management of poultry and pets, the proper care of the lawn, vines and shade trees, and discuss everything pertaining to the out-doors of the suburban, village or country home. This would be an excellent book to present as a premium at a local flower show or fair. In appreciative hands it would make business for florist, nurseryman or seedsman. The author, who is a practical gardener and an authority on the subject, was for several years a member of the faculty of two state agricultural colleges and possesses the ability to write in a clear and entertaining style. His book will be treasured by every person fortunate enough to possess a garden spot.

Alma's Junior Year, by Louise M. Breifenbach. Another addition to the popular Hadley Hall series, published by The Page Company, Boston. Not horticultural but redolent of country life and rural pastimes and well adapted as a gift for any girl in her 'teens and sure to be popular with such. Price, $1.50 net.

Miss Billy—Married; by Eleanor H. Porter, author of Pollyanna, the "Glad Book." Like the Glad Book, this new comer is destined to popularity from the start. "Miss Billy" is a character full of the "go" which makes heroines fascinating and very real. There is not one dull or weak page in the book. The Page Company, Boston. Price, $1.40, post paid.

"Tree Talk" for February, 1914, is a very interesting and useful number. This periodical, published by The Frost & Bartlett Co., Stamford, Conn., is devoted to the planting, care and treatment of trees, and landscape forestry in general.

The Rhode Island Experiment Station Extension Department has issued two bulletins—one on How to Build Hotbeds and Coldframes, the other on Sweet Pea Culture. Both are practical and will be appreciated by growers. Copies may be obtained free by addressing the Extension Department, R. I. State College, Kingston, R. I.

Bulletin No. 11, of the American Association of Park Superintendents, is a very useful issue, treating on Insects Injurious to Shade and Ornamental Trees. Two full-page color plates of the Gypsy and Brown Tail Moths, published by the New York State Department of Agriculture, are inserted. All the serious pests are listed, giving the time of their activity, their food, remedy, time of treatment, etc.

Botany, by E. Brucker. A useful addition to the "Threshold of Science" series, published by Doubleday, Page & Co., Garden City, N. Y.

Someone has said that "if we were occasional visitors to the earth, we would never come without a guidebook to the wonders and beauties of tree, and flower, and shrub." This book would meet such a demand, for its forty-two chapters unfold the fascinating story of plant life. There are 202 pages, 235 illustrations, a classified table, and an index. It is simply and non-technically written for the person who says: "I wish I knew." Price, 50c. net.

The "JOY" BLACKBERRY



brings joy to all who grow, sell, or eat it. It is immensely profitable to the market grower, and "a joy forever" to the amateur gardener. The canes are of ironclad hardihood and need no staking. They yield heavily, all the canes being literally loaded with fruit every year. I have tested this berry for several years, and am willing to stake my reputation upon it. In the winter of 1911-12 every Blackberry in my trial grounds was damaged more or less except the Joy which came through with every bud and terminal in perfect condition.

Grow This Berry. It is Hardy and Wonderfully Productive

JOY Blackberries are coal black, and large, almost as thick through as they are long. In luscious flavor they surpass by far all other Blackberries I have ever grown. In my long experience with this berry its canes have never been affected, even slightly, by orange rust or other fungus disease, and I believe it is immune to them.

A full assortment of Strawberries, Raspberries, Blackberries, Grapes, Currants, Gooseberries, Garden Roots, Hardy Perennial Plants, Shrubs and Vines, Evergreen and Shade Trees, Roses, Hedge Plants, etc. Illustrated descriptive catalog replete with cultural instructions, free to everybody. Established 1878. 200 acres. Quality unsurpassed. Prices low.

LOVETT **J. T. LOVETT, Box 153 Little Silver, N. J.**

CHRYSANTHEMUM SOCIETY OF AMERICA.

Review of the Work of the Examining Committees for the Season 1913.

Name of Variety	Where Shown	Date	Exhibited by	Color	Type	Scale	Color	Form	Fullness	Stem	Foliage	Substance	Depth	Size	Total
Smith's Ideal	Cincinnati	Nov. 1	Elmer D. Smith & Co., Adrian, Mich.	White	Jap. Inc.	Com.	18	13	9	14	12	14	..	8	88
" "	Phila.	Nov. 8	" " "	"	"	"	15	13	9	13	14	14	..	8	86
Nerissa	Cincinnati	Nov. 15	" " "	Pink	"	"	17	14	10	14	12	13	..	10	90
"	"	"	" " "	"	"	Ex.	13	14	15	5	4	..	14	28	93
Odessa	"	"	" " "	Yellow	"	"	15	14	12	4	4	..	12	27	88
"	"	"	" " "	"	"	Com.	20	14	8	13	13	13	..	10	91
Garnet Gem	Chicago	Nov. 1	" " "	Maroon	Jap. Reflex	"	18	13	8	14	11	13	..	8	85
Oconta	Cincinnati	Nov. 18	" " "	White	Jap. Inc.	"	15	12	8	15	12	15	..	9	86
Azelda	"	Nov. 22	" " "	Pink	Anc. Pom.	Pom.	35	15	15	17	..	..	..	..	82
Leota	Chicago	Nov. 7	" " "	"	Pom.	"	37	18	16	15	..	..	..	..	86
Celco	"	Nov. 10	" " "	Yellow	"	"	36	17	17	15	..	..	..	..	85
Queen	Cincinnati	Nov. 22	" " "	White	Single	Single	38	18	..	18	..	17	..	..	91
Fraser's Golden Ball	Chicago	Nov. 7	The Rogers Greenhouse, Rogers, Ark.	Yellow	Jap. Inc.	Com.	18	12	9	11	11	12	..	6	79
Martha	Cincinnati	Nov. 22	E. H. Freis, Fort Thomas, Ky.	White	"	"	17	13	10	13	14	13	..	8	88
Edwin Seidewitz	Phila.	Nov. 15	G. A. Lotze, Glen Burnie, Md.	Pink	"	"	18	13	9	13	12	13	..	9	87
Chieftain	Chicago	Nov. 8	The E. G. Hill & Co., Richmond, Ind.	"	"	"	18	14	9	13	13	13	..	8	88
Sport from Glory of Pacific	"	Oct. 11	H. Weber & Sons Co., Oakland, Md.	Blush Pink	Reflex	"	15	12	9	14	14	14	..	8	86
" " " "	Cincinnati	"	" " "	"	"	"	12	11	9	15	14	13	..	8	82
Marie Poole	Lake Geneva	Nov. 12	W. P. Longland, Lake Geneva, Wis.	Salmon Y'l'w Ctr	Anemone	Single	36	18	..	18	..	18	..	..	90
Stanley Yeu	Chicago	Oct. 25	Chas. H. Totty, Madison, N. J.	Pink	Single	"	33	18	..	18	..	17	..	..	86
" "	Phila.	"	" " "	"	"	"	38	18	..	18	..	18	..	..	92
" "	Boston	"	" " "	"	"	"	40	18	..	18	..	18	..	..	94
R. B. Burge	New York	Oct. 18	" " "	White	"	"	39	19	..	16	..	18	..	..	92
" "	Chicago	Oct. 25	" " "	"	"	"	38	18	..	18	..	15	..	..	89
" "	Phila.	"	" " "	"	"	"	39	18	..	17	..	18	..	..	92
" "	Boston	"	" " "	"	"	"	40	18	..	18	..	19	..	..	95
Gladys Duckham	Chicago	"	" " "	"	"	"	32	15	..	16	..	15	..	..	78
" "	Boston	"	" " "	"	"	"	38	18	..	15	..	17	..	..	88
" "	Phila.	"	" " "	"	"	"	34	18	..	17	..	17	..	..	86
Mrs. Paul Moore	New York	Oct. 18	" " "	Yellow	Japanese	Com.	18	12	9	13	13	15	..	..	80
" "	"	"	" " "	"	"	Ex.	14	13	14	5	5	..	..	..	51
Ivy Gay	Boston	Oct. 25	" " "	Rose Pink	Jap. Inc.	Com.	18	14	9	13	14	..	..	..	68
" "	"	"	" " "	"	"	Ex.	14	14	14	..	..	..	12	..	54
" "	Phila.	"	" " "	"	"	Com.	17	14	8	..	..	..	..	..	39
Mrs. Ernest Wild	New York	"	" " "	Chestnut Bronze	Japanese	"	17	12	8	14	..	..	..	..	51
" "	"	"	" " "	"	"	Ex.	14	13	..	..	..	..	..	..	27
						Com.	20	15	..	..	..	..	..	..	35
						Ex.	15	15	..	..	..	..	..	..	30
						Pom.	40	20	..	..	..	..	..	..	60
						Single	40	..	..	..	..	..	..	..	40

Scores possible under scale used (C. S. A. Official).

CHAS. W. JOHNSON, Secretary.

Catalogues Received

C. S. Harrison, York, Neb.—Folder about Norway Poplar.

Harlan P. Kelsey, Salem, Mass.—Special Sale of Hardy American Plants.

The Imlay Company, Zanesville, O.—1914 Price List of Seeds, Plants and Flowers.

The Deming Company, Salem, Ohio.—Miniature Catalogue of Deming Sprayers.

Bowker Insecticide Company, Boston—Descriptive List of Insecticide Specialties.

Whiting Nursery Co., Yankton, S. D.—Special Wholesale Quotations on Spring Nursery Stock.

Gebr. Holder, Metzingen, Wurtemburg, Germany—Catalogue of spraying machinery, nozzles, etc.

Bow Park Seed Farm, Brantford, Ont.—Descriptive Price List of Pedigreed Canadian Seeds, etc.

Wm. Toole, Baraboo, Wis.—Guide to Pansy Culture and Catalogue of Seeds and Plants, for 1914.

Harlan P. Kelsey, Salem, Mass.—Price List of Rhododendrons, Azaleas and other Hardy Native Plants.

Fraser Nursery Company, Inc., Huntsville, Ala.—Surplus List No. 2, for nurserymen and dealers only.

D. Hill Nursery Co., Inc., Dundee, Ill.—Evergreen Book, 1914. An illustrated catalogue of hardy conifers.

A. E. Kunderd, Goshen, Ind.—Illustrated List of New Ruffled Gladioli. Some exquisite varieties are enumerated.

D. M. Andrews, Boulder, Colo.—Colorado Wild Flowers, Shrubs, Evergreens, Ferns, Cacti, etc. Illustrated.

New Mineral Fertilizer Co., 11 So. Market street, Boston.—Folder of Cocoanut Humus and Mineral Plant Food.

Canadian Seed Growers' Association—Catalogue of Registered and Imported Seed Produced in 1913 and Offered for Sale.

Basil Perry, Georgetown, Del.—1914 Descriptive Catalogue of Choice Strawberry Plants, Fruit Trees, Vegetable Plants, etc.

V. Lemoine & Son, Nancy, France.—Illustrated Catalogue of Choice Shrubs, Perennials, etc., for February and March, 1914.

American Forestry Company, Boston, Mass.—How to Make a Forest. A missionary pamphlet for the Little Tree Farms at Framingham, Mass.

C. Keur & Sons, Hillegom, Holland, are sending out with their general catalogue a beautiful colored life-size portrait of white gladiolus Glory of Holland.

J. P. Hartmann, Ghent, Belgium.—Catalogue of Novelties and Belgium Trade Plants. Handsomely illustrated. Loechner & Co., New York, are American agents.

James MacGregor, Braintree, Mass.—Book of garden designs, landscape sketches and suggestive drawings for formal estate work, Japanese gardening, etc.

J. F. Noll & Co., Inc., Newark, N. J.—Catalogues of Seeds, Plants, Bulbs and Poultry Supplies. A handsome general catalogue of 116 pages, profusely illustrated.

Oregon Nursery Company, Orenco, Ore.—The Vrooman Franquette Walnut. A finely illustrated descriptive, monograph on this hardy, productive tree and its fruit.

Dingee & Conard Company, West Grove, Pa.—Dingee Guide to Rose Culture. Strong on beautiful illustrations and fine press work. Full of interest for the rose lover.

Geo. H. Walker, North Dighton, Mass.—Pocket-size Price List of Dahlias. A very handy and thoroughly reliable list of the leading varieties in all classes of dahlias.

B. Hammond Tracy, Wenham, Mass.—Cedar Acres Gladioli for 1914. A very tasteful, illustrated catalogue, size 3¾ x 8 in. to fit pocket. Cover shows a gladiolus bed in natural colors.

M. Rice Co., Philadelphia, Pa.—Eastern Portfolio and Willing Helper Supplement. An illustrated list of new styles in florists' baskets, chiffons and other requisites for spring of 1914.

M. Herb, Naples, Italy.—Wholesale Catalogue of Seeds, 1913-14. Printed in three languages—English, German and French. Many promising novelties are presented in this catalogue.

Peacock Dahlia Farms, Berlin, N. J.—Illustrated Catalogue of "The World's Best Dahlias, New Creations and Old Friends. Handsomely illustrated and a very comprehensive list.

Holm & Olson, Inc., St. Paul, Minn.—Creating Your Landscape. A real live book, compiled and illustrated in a manner to inspire the home and garden enthusiast. Illustrations and type in two colors.

A. C. Kendel, Cleveland, Ohio.—Kendel's Seeds, Plants and Bulbs. A feature of this catalogue is the use exclusively of fine wood engravings as illustrations. The present is Kendel's 75th year in the seed business.

Framingham Nurseries, Framingham, Mass., W. B. Whittier & Co., Framingham, Mass.—1914 Trade Price List for Nurserymen, Dealers, Florists and Landscape Architects Only, Spring 1914. A business publication without frills.

Blue Hills Nurseries, W. W. Hunt & Co., props., Hartford, Conn.—General Spring Catalogue of Ornamental and Fruit Trees, Shrubs, Hardy Perennials, Greenhouse Plants, etc. A very tasteful catalogue handsomely illustrated, pocket style.

Frederick W. Ebele, Albany, N. Y.—Seed Annual for 1914. A model catalogue well arranged and well-printed. The cover in soft grey tint is adorned in front with a fine illustration of Sweet Scabious and on the back with a lawn and garden view.

Stumpp & Walter Co., New York City.—General Spring Catalogue for 1914. Asters and Shirley Poppies are shown in brilliant tints on front and back cover pages, respectively. A comprehensive publication, including a tempting list of novelties.

Chamberlain & Gage, Wellesley, Mass.—Catalogue of Gladiolus Bulbs for 1914. An interesting and instructive catalogue, with a list which represents the advanced gladiolus varieties strictly up-to-date. A reliable guide to the gladiolus lover.

Old Town Nurseries, M. P. Haendler, Proprietor, South Natick, Mass.—Spring Catalogue of Deciduous and Evergreen Trees and Shrubs, Hardy Perennials, etc. A very creditable presentation of the good things offered by this rising young establishment.

Peter Henderson & Co., New York City.—Henderson's Farmers' Manual, 1914. This is a very attractive special catalogue devoted to grass mixtures for pasture and hayfield, corn, root crops, potatoes, clover, oats and other farm seeds. Rural landscapes in colors adorn the cover pages.

Palisades Nurseries, Sparkill, N. Y.—A beautiful catalogue, all right, with inspiring cover pictures and lots of news inside about new, rare and meritorious hardy plants. This is one of the catalogues that talks direct to the people and makes enthusiastic customers for the progressive garden trade. Wholesale list accompanies it; send for a copy.

New England Nurseries Co., Bedford, Mass.—Wholesale Price List for Nurserymen, Florists and Dealers, 1914 Spring Edition. A fine selection of hardy ornamentals and fruit trees and herbaceous perennials. Also general catalogue of Bedford grown hardy material. A very useful manual freely illustrated and attractive. Among the special features of the contents are the following lists: Trees and plants furnishing food for birds; plants appropriate for rock gardens; suggestive planting schemes and planting plans for small grounds; the best trees and shrubs for seashore planting; plants useful for ground covering.

R. Vincent, Jr., & Sons Co., White Marsh, Md.—An unique production, the sensation of the year in catalogues. It is really a beautiful album. Each page displays one or several geranium portraits, life size and in colors strikingly natural, also many general garden views in realistic color effect. Printed on heavy coated paper, these pictures show up splendidly. As to varieties described Messrs. Vincent has certainly given us the last word in geranium improvement. The expense of this publication must have been very heavy but we have no doubt Messrs. Vincents' courage will be fully recompensed and their reputation as the premier geranium house on the American continent still further assured by the enterprise thus displayed.

FIRST AID TO CANNA SELECTION

There are so many different varieties of Cannas nowadays that it is no small thing to know what kind to order.
Here are a few of the better sorts that we recommend, in Pinks, Oranges and Yellow. Their arrangement in sizes will help you. **Quality Considered** no one can beat us in price.



(Height Varies with Climate and Care)

	SHADES OF PINK	10	100	1000
DWARF up to 3 ft.	Betsy Ross, 3 ft...	$1.00	$7.50	
	Hiawatha, B, 3 ft.	.50	4.00	
	Hungaria, 3½ ft..	4.50	10.00	
	Loveliness, 3 ft....	.50	4.00	$35.00
	Martha Washington, 3 ft.....	.35	2.50	20.00
	Wawa, 3 ft.....	.65	5.00	40.00
	Evolution B, 4 ft.	.35	2.50	20.00
	Luray, 4 ft.....	.35	2.50	20.00
	Minnehaha, 4 ft...	.45	3.50	30.00
MEDIUM	Mrs. Alfred F. Conard, 4 ft....	2.50	12.00	100.00
	Rosea Gigantea, 4 ft.	1.00	5.00	40.00
	Venus, 4 ft.....	.50	4.00	25.00
	Wabash	3.00	20.00	150.00
TALL	Louise, 5 ft.....	.30	2.00	15.00
	West Grove, 5 ft..	.35	2.50	20.00

	YELLOW OR ORANGE	10	100	1000
	Buttercup, 3 ft....$	.75	$6.00	$50.00
	Director Holtze, 4 ft.	.40	3.00	25.00
	Dr. Nansen, 2½ ft.	.35	2.50	20.00
	Queen of Holland, 3 ft.....Price on request			
	Brilliant, 4 ft.....	.45	3.50	30.00
	California, 4 ft...	.45	3.50	30.00
	Eastern Beauty B, 4 ft.....	.35	2.50	20.00
	Eldorado, 3½ ft...	.35	2.50	20.00
	Juanita B, 4 ft....	2.50	20.00	
	Kate F. Deemer, 4 ft.	4.00	25.00	
	Zenith, 5 ft.....	.90	7.00	50.00

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National Nurseryman Pub. Co., Inc.

218 Livingston Building
ROCHESTER, NEW YORK

SEED TRADE

A Dubious Outlook.

Severe stormy weather extending over several weeks has had a very bad effect on the seed trade of the country, even in the South. It has undoubtedly greatly retarded counter trade and from information we have has been a severe blow to the mail order trade.

Somebody has described an optimist as a man at 12 o'clock at night who has dined and wined until he is in a very happy frame of mind; the pessimist is the same man the next morning. While we do not wish to be the pessimist, it is often best to face facts, and the trade as a rule has learned that business once lost through bad weather, or otherwise, is rarely recovered that season. For that reason we are inclined to believe that the total result of this year's seed business is very liable to be disappointing. Should it prove otherwise, we shall be among the first to congratulate the trade.

Troubles of the Pea Growers and Dealers.

In our last Seed Trade Notes we called attention to complaints of the seed growers, especially the growers of peas, because orders came very slowly, only after much strenuous effort, and in greatly reduced volume as compared to the last five or six years. Many believed at that time that as the season drew to a close, buyers would be more free in placing their orders, but such information as reaches us does not sustain this hope, and so far as we are able to estimate the situation, there has been very little increase in the business of the pea seed growers during the past few weeks. Both seedsmen and canners are heavily overstocked and will not be able to dispose of stocks on hand this year. Many are offering peas at prices from $1 to $1.50 per bushel, less than they cost, to unload, without any very satisfactory results. The fact is that nearly everybody has enough and more than enough, and under such circumstances price cutting is not a very effective means of securing business. People will not buy when they are already overstocked.

Price Cutting.

As pointed out in previous notes, many growers believed that the trouble could be overcome by cutting prices, and they proceeded forthwith to do so. While those who cut the deepest may have booked a small amount of business they would not otherwise have secured, they have certainly not done enough more to justify the losses that the lower prices will entail. We should judge by the information that reaches us that orders were booked at a great variety of prices—sometimes by the same grower, his chief aim being to get the business and if one price did not draw it, try another until they found a level that was satisfactory to the buyer. We are wondering if the lowest prices and the latest orders booked will be on the same terms and at the same figures as those booked early in the season, and if not, how the growers will square themselves with their early buyers.

It is needless to say that the canners were not slow in appreciating the difficulties of the seed growers, and played them against each other to their own advantage. It seems to have been all around an unfortunate situation, but we are optimists enough to believe that like every other problem this will be solved in due time, altho' in the solution it is not unlikely that some of those in the business will find it congenial to seek some other occupation.

A Hot Place in June.

We hear from different correspondents that the third week in June is one of the warmest in the entire year in Washington, and those thoroughly familiar with the climate suggest that if the convention could be held a week earlier than usual, the seedsmen would escape this intensely warm weather. Anyone who has experienced the real hot weather in Washington need not be told what purgatory is like, as it is certainly a most excellent imitation, if a description of the real place is to be relied upon.

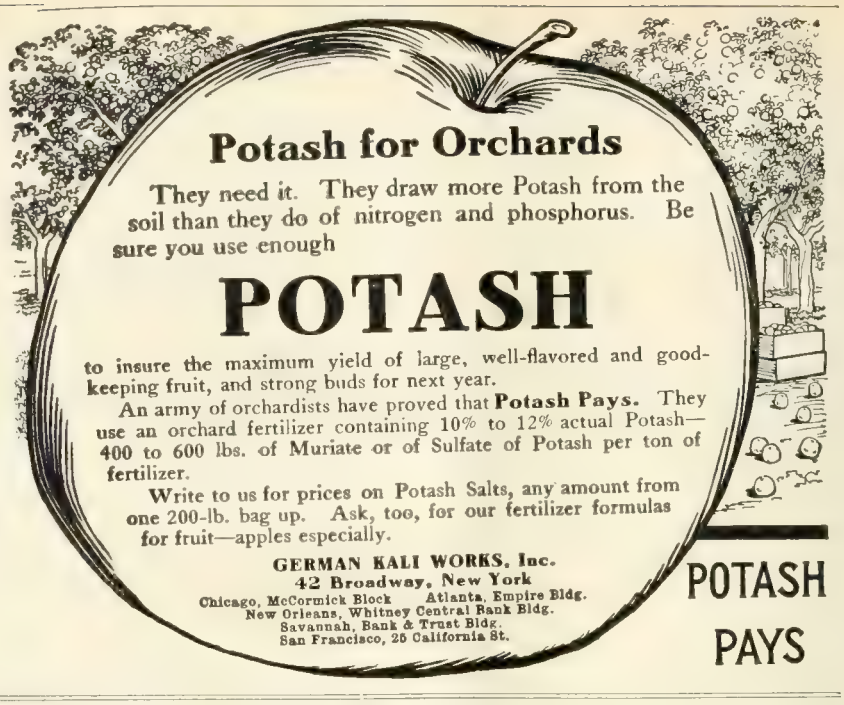
This is just a suggestion, which may or may not receive consideration by the officers of the American Seed Trade Association.

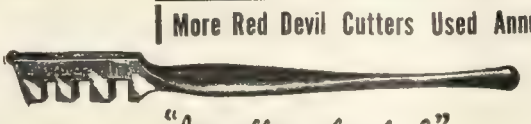
Bean Cunning.

Beans are still ruling very high, and many items are not procurable now at any price, yet we venture a prediction that by April 1 offers will begin to appear of varieties which now have disappeared from the map. There never has been a year when any item was so scarce that somebody did not have it to offer late in the season. Many of these offers, of course, come too late to be of any service, and generally are occasioned by the high prices ruling. If prices were normal, the quantities offered, being small, would be carried over, as holders would not take the trouble to offer. However, about the time that the ground hog emerges to take another look at his shadow, we may expect to find such varieties as Black Valentines, Burpee's Stringless, Horticultural Dwarf, Late Refugee, Round Pod Kidney Wax, Curries' Rust Proof and Wardwell's Kidney Wax on surplus lists, although quantities will undoubtedly be very small. Many will have an old stocking that they will dig up surpluses from and these will be quoted at varying prices, according to the desire of the dealer to dispose of them.

Next Canners' Convention.

The discussion as to the place for the next Canners' Convention is proceeding and a referendum vote has been ordered of the members of the three Associations which make up the annual Canners' Convention. Doubtless many have favored San Francisco, under the impression that they would be enabled to attend the convention and also see the exposition, all under one trip, and while the exposition officials have stated positively that the exposition would be open on Feb. 20 and that all exhibits would be in place at that date, it is a simple-minded person who will accept this statement at its face value; not that anyone doubts the good faith of the exposition officials and their intention to make good, but no exposition ever





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THE BEST PINK CANNA ROSEA GIGANTEA. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

THE BEST YELLOW CANNA GUSTAV GUMPPER. 3½ to 4 feet. $1.00 per doz.; $8.00 per 100; $75.00 per 1000.

THE BEST WHITE CANNA MONT BLANC. 3½ feet high. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Red-flowering, Green Foliage

LOUISIANA. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
A. BOUVIER. 5 feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.
BEAUTE POITEVINE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
BLACK PRINCE. 3 to 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
CHARLES HENDERSON. 4 feet. 25 cts. per doz.; $1.85 per 100; $16.00 per 1000.
CRIMSON BEDDER. 3 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
DUKE OF MARLBORO. 4½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
J. D. EISELE. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
EXPRESS. 2 to 2½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
PRESIDENT CLEVELAND. 3 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
PRES. McKINLEY. 2½ to 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PRES. MEYER. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PILLAR OF FIRE. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
TARRYTOWN. 3½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

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ALSACE. 3½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.

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LOUISE. 5 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
MLLE. BERAT. 4½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.
VENUS. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Bronze-leaved, Red-flowering Cannas

BRANDYWINE. 4 to 5 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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EGANDALE. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
KING HUMBERT. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
LEONARD VAUGHAN. 4½ feet. $3.75 per 100; $35.00 per 1000.
MUSAEFOLIA. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
ROBUSTA. 6 to 8 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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DUKE OF YORK. 4 to 5 feet. 15 cts. each; 60 cts. per doz.; $4.25 per 100; $40.00 per 1000.
GLADIATOR. 4 feet. 30 cts. per doz.; $2.00 per 100; $18.00 per 1000.
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JEAN TISSOT. 5 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
MAD. CROZY. 5½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
QUEEN CHARLOTTE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
PREMIER. 2½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
SOUV. DE A. CROZY. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orange Shades

WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
PENNSYLVANIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
MRS. KATE GRAY. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orchid-flowering Cannas

ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
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GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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Branching. Separate colors, 80c. per oz.; mixed, 65c. per oz.
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BEGONIA.
Erfordii. 50c. per pkt.; 1-16 oz., $1.50.
Semperflorens Rose. ¼ oz., 50c.
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Gracilis Luminosa. 25c. per pkt.

CANDYTUFT.
Empress. 15c. per oz.
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CENTAUREA.
Imperialis. White, 50c. per oz.
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Maritima. 15c. per oz.
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Allen's Defiance. 30c. per oz.
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Thorburn's Superb Mixture. $4.00 per oz

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has yet opened on time, and we are yet to be convinced that this one will be. Consequently, those who expect to see the exposition may as well decide to go at a later date, for it begins to look more and more improbable that the convention will go to California.

Chicago Seed Notes.

Chicago mail this week is bringing the inevitable free seed packages from the United States Department of Agriculture.

Some of the Chicago seed houses report delay in receiving imported and home-grown stock this week owing to the severe storms in the East.

The continued cold weather and the snow which still lingers prevents any marked change in local sales. Seed packets are about completed and retail seed stores are rapidly getting into readiness for the sudden change to spring, which usually occurs here, and which seldom finds our seedmen napping. Traveling salesmen are reporting good prospects for the coming season, backed up with substantial orders for their respective houses.

A Spencer Watts, president of Hillsdon, Watts, Ltd., Mascot, Sydney, Australia, wholesale seed growers and palm seed exporters, is in Chicago on his first trip to the United States. Mr. Watts has been as far as England twice before in the interest of his firm, and this time combined sight-seeing with business and with Mrs. Watts is making an extensive tour of this country. They use half a million young palms in their local trade in addition to those shipped to long distances, but so far none of the plants have been shipped to America, trade with this country being confined to the exporting of palm seeds.

Notes.

The Annual Convention of the Canadian Seed Growers' Association is being held on Thursday and Friday of this week at Ottawa, Ont.

George C. Watson's annual importation of grass seed for lawns and permanent pasture has arrived on the S. S. Zyldyk at Philadelphia. This is an important item for the dealers in imported grasses in this country, the majority of whom place their orders through Mr. Watson.

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As fine Sweet Peas as grow, and true to name at prices which will bear investigation. Prices for immediate delivery.

SPENCER	Pkt.	Oz.
Florence Nightingale	$ .10	$ .30
Flora Norton	.15	.30
Asta Ohn	.10	.30
Pearl Grey	.10	.40
Apple Blossom	.10	.20
America	.10	.20
Countess	.10	.20
Blanche Ferry	.10	.25
Duplex Pink	.10	.30
Duplex Crimson	.15	.35
Dainty	.10	.20
White	.15	.35
Othello	.10	.20
Rainbow	.10	.35
Gaiety	.10	.25
King Edward VII	.10	.20
Primrose	.10	.30
Martha Washington	.10	.20
Queen Alexandra	.10	.20
Sterling Stent	.10	.35
Fancy Mixed	.10	.20

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Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

The monthly meeting and dinner of the Retail Florists' Club of Boston was held at the Boston City Club, Tuesday night, March 3, 42 members being present. Pres. Thomas F. Galvin presided. "Efficiency as Applied to the Florist's Trade," was discussed by several members, including Pres. Galvin, Harry Quint, Julius A. Zinn, Samuel Wax, A. S. Caplan and Sec. B. H. Green.

The Chicago Retailers' Association held its regular monthly meeting March 2, at 170 W. Jackson Boul., with about fifty in attendance. This new association was organized for the general betterment of the retailers and the solving of the many difficult problems that confront them in their work. They welcome any of the wholesalers or any others connected with the trade, to exhibit any of their offerings, at any regular meeting. Allie Zeck showed some extra fine butterfly sweet peas, stems 18 inches long and in five shades, which called forth many favorable comments.

STEAMER DEPARTURES

Allan.
Scandinavian, B'st'n-Gl'sgow. Mar. 19

American.
St. Paul, N. Y.-Southampton. Mar. 13
St. Louis, N. Y.-Southampton. Mar. 20

Atlantic Transport.
Minneapolis, N. Y.-London... Mar. 21

Cunard.
Mauretania, N. Y.-Liverpool.. Mar. 11
Laconia, Boston-Liverpool.... Mar. 17
Caronia, N. Y.-Mediterranean. Mar. 17

French.
La Savoie, N. Y.-Havre..... Mar. 11
Chicago, N. Y.-Havre..... Mar. 14

Hamburg-American.
K. A. Victoria, N. Y.-Hamb'g. Mar. 12
Graf Waldersee, N. Y.-Havre. Mar. 14
Rhaetia, Boston-Hamburg.... Mar. 18
Pretoria, N. Y.-Hamburg..... Mar. 19

Holland-America
Ryndam, N. Y.-Rotterdam... Mar. 10

Leyland.
Bohemian, Boston-Liverpool.. Mar. 14
Winifredian, Boston-Liverp'l. Mar. 21

North German Lloyd.
K. Wilhelm II, N. Y.-Br'm'n. Mar. 10
Gneisenau, N. Y.-Bremen..... Mar. 12
Berlin, N. Y.-Mediterranean... Mar. 14
K. W. der Grosse, N. Y.-B'm'n. Mar. 17
Bremen, N. Y.-Bremen..... Mar. 19

Red Star.
Kroonland, N. Y.-Antwerp... Mar. 11
Finland, N. Y.-Antwerp..... Mar. 18
Zeeland, N. Y.-Antwerp..... Mar. 21

White Star.
Baltic, N. Y.-Liverpool..... Mar. 12
Canopic, Boston-Mediter'n.... Mar. 14
Cymric, Boston-Liverpool.... Mar. 14
Oceanic, N. Y.-Southampton.. Mar. 18

BUSINESS TROUBLES.

A meeting has been called by the Referee in Bankruptcy, at Room 121, Post Office Bldg., March 13, on the petition of the receiver for Edward MacMulkin, Boston, for leave to sell certain property of MacMulkin at public or private sale.

New Galilee, Pa.—Peter Hoffman of Evansville, Ind., has leased the Wm. Lauch greenhouses.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries
Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

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N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

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"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
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NEW YORK CITY

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ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
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304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

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915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

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Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
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4326-28 Olive St.
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TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
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96 Yonge St., - - TORONTO, ONT.

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WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

St. Louis, Mo.—Joseph Witek.

Elmwood City, Pa.—Krut Floral Co.

Utica, N. Y.—Utica Floral Company.

Indianapolis, Ind.—Pahud Floral Co., Illinois street.

Chicago, Ill.—Crawford Floral Co., 4227 W. 22nd St.

Hartford, Conn.—Coombs the Florist, 741 Main St.,

Erie, Pa.—Wm. G. McCarthy, 724 West 8th street.

Columbia, Mo.—Wheat Floral Co., 711 Missouri avenue.

Omaha, Neb.—Morgan-Shawler Co., 1903 Farnum street.

Kalamazoo, Mich.—Fisher Floral Co., Academy of Music block.

Baltimore, Md.—The Flower Shop, Tremont, opp. Edmundson avenue.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
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THE J. M. GASSER COMPANY,
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M. RICE CO.
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L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CHICAGO NOTES.

Joseph Klimes has opened a retail store to be known as the Crawford Floral Co., at 4227 W. 22nd St.

Although February was very cold a source of gratification to growers was the more than normal amount of sunshine. Precipitation was almost entirely in the form of snow.

The new firm for manufacturing greenhouse material, Ickes-Braun Mill Co., have bought a lot 125 by 243 feet, on Wabausia Ave., near Western Ave., and already have their plant under way. Effort is being made to complete it in six weeks so as to be ready to care for spring business.

At Poehlmann Bros.' department of florists' supplies, the new walking stick baskets are seen. They are, as their name indicates, flower baskets with sharply flaring sides and rather high handle. They are to be carried by wedding parties, etc., and when still the cane which is metal-tipped rests upon the ground, or they can actually be used as walking sticks.

One of the landmarks in Chicago's floral establishments changed hands this week and John F. Kidwell is now in possession of the valuable property at 3530 Michigan Boul., which has been for 31 years known as Muir's and which was purchased by Samuel Muir, one of the pioneers of Chicago.

The ground 100 by 200 feet, contains a store and conservatories. Samuel Muir passed away nine years ago and the business has been carried on by his son, who also has two other stores. Mr. Kidwell has another store, also a large range of greenhouses at Downer's Grove, Ill. When he was a very young man, he learned the flower business from Sam'l Muir, on the very place he has just purchased.

PHILADELPHIA NOTES.

Dr. Peter H. Lane of Chestnut Hill, a member of the Florists' Club of Philadelphia and well known to many members of the craft in other cities from his close intimacy with many of our leading men at Conventions and Vacations and Openings, had the misfortune to slip on the ice on the 2nd inst., during the great blizzard while returning from a professional call. Broken leg. Fracture above the ankle on both bones. Resting easily at the Chestnut Hill Hospital at this writing (the 3rd), and expects to be removed to his home on Bethlehem Pike, Chestnut Hill, on the 10th inst.

The big blizzard seems to have passed over this section without serious damage to glass. We have heard of nothing serious up to this writing (Tuesday). It was reported that Alfred Campbell, Collingdale, had a "cave-in". This proved to be unfounded. All the "cave-in" he had was a part of a boiler chamber which was quickly repaired and did no damage to stock. Robert Crawford, Secane, was also said to have suffered, but that, too, proved unfounded. Here and there some glass blown out at other places; but nothing worth talking about, apparently. More scared than hurt.

Temple, Texas—The Ferndale Greenhouses, formerly owned by Hugh Harris, have been purchased by H. Schroeder.

WASHINGTON NOTES.

G. E. Eckendorf, with Gude Bros. Co. for the past three years, has been given a position as draftsman at the District Building.

The enactment of the eight-hour law for women in the District of Columbia has caused those of the florists who employ female labor to divide up the force into shifts. In one store half the girls come to work at 8.30 and leave at 5.30, while the others come in at 9.15 and leave at 6.15, in each case taking the usual hour for lunch, forty-five minutes of which must be taken away from the premises.

George Cooke, of Connecticut avenue, is filling many demands for novelties. The society folks seem to be getting tired of seeing the same old story at the various functions in the way of floral decorations. It has always been roses and carnations—carnations and roses; the people want to see something else and are willing to pay for it. Mr. Cooke is bringing into vogue the use of cyclamen, orchid-flowering peas, primroses and other small flowers, and he is making good with these combinations.

The Treasury Department has forwarded the following letter to the Collector of Customs of the Port of New York: "The Department duly received your letter of the 26th ultimo, in regard to the method to be adopted for determining what flowering bulbs are entitled to admission free of duty under paragraph 210 of the Tariff Act of Oct. 3, 1913. It appears from an investigation of this matter that there are no means of determining what mother flowering bulbs are, as distinguished from bulbs imported for flowering, either in forcing houses or in the open air. You are accordingly directed to deny free entry under paragraph 210 to bulbs claimed to be mature mother flowering bulbs imported exclusively for propagating purposes unless the invoice specifically indicates which of the bulbs, comprised in any importation, are mature mother flowering bulbs, and unless an affidavit is submitted from the ultimate consignee, stating that the bulbs are imported for propagating purposes and are intended exclusively for such purposes."

Mrs. George H. Cooke, Mrs. Elmer C. Mayberry, Mrs. George C. Shaffer, Mrs. Simmons, Mrs. Edward Niedomanski and Mrs. Stauf, members of the ladies' auxiliary of the Florists' Club of Washington, were the guests last month of the ladies of Baltimore. The trip to Baltimore was made over the electric line on the 11 o'clock car. The day started with a luncheon at Baum's and then the entire party went to Poli's Theatre. Baum's was again visited after the performance. Here a special room had been reserved for the ladies and in their honor the tables were decorated with flowers, and at each plate was a corsage bouquet. The evening was devoted to a bowling match between the ladies of the two cities, with the members of the Florists' and Gardeners' Club of Baltimore sitting on the side lines or joining in the games. The day's entertainment, according to one of the ladies, was such as to cause all to regret that the homeward trip had to be made, and the courtesies of the Baltimoreans will be returned at an early date by the ladies of the National Capital.

Denver, Colo.—The Park Floral Company has won out in the legal fight with the State Land Board over the rental of the property occupied by them. The case has been in the courts for almost three years.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

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Established 1847

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THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns

Are Thoroughly Covered by

SCHILLER, THE FLORIST

(Member Florists Telegraph Delivery).

Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of

GEORGE ASMUS, Mgr.

2221-2223 W. Madison St., CHICAGO.

'Phone West 822

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

SEND ALBANY ORDERS TO

FRED. A. DANKER

40 Maiden Lane, Albany, N. Y.

Member Florists' Telegraph Delivery.

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

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QUALITY SCRIPT LETTERS

Our Script Letters Are Sold As Low As Right Quality Letters Can Be Sold. We Cannot Meet Low Price Competition With Our Standard Goods. The Letters We Offer Are Well Finished, Uniform In Color and First Class Every Way. They Give Tone To Any Work Where They Are Used. Send for a Sample of Our Goods and of the Cheap Stuff Offered In Competition and Compare Them. That's All. We Buy No Job Lots.

IN ALL FLORISTS' SUPPLIES

we hold to high standard. When there is anything new worth having we sell it. Special for this week:—St. Patrick's Day Hats, Pipes and Other Conceits for sending out with March 17th orders.

H. BAYERSDORFER & CO., PHILADELPHIA, PA.
The Florist Supply House of America

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches	high,	$2.50	per	doz.	4	24	inches	high,	$5.00 per doz.
2	15	"	"	3.50	"	"	5	30	"	"	6.50 " "
3	18	"	"	4.00	"	"	6	36	"	"	9.00 " "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

Obituary

John M. Foss.

John M. Foss, engaged in the florist business in Sharpsburg, Pa., died on Feb. 15, aged 49 years.

James P. Copeland.

J. P. Copeland, proprietor of the Marion Greenhouses, Marion, Ill., died on Feb. 19, after a short illness with pneumonia. The business will be continued by his widow.

Wm. W. Bailey.

Prof. W. W. Bailey of the Botanical Department of Brown University died on Feb. 20, at Providence, R. I., aged 71 years. He was the author of a number of botanical books.

Abel S. Wolfe.

The funeral of Representative Abel S. Wolfe, of Auburn, Mass., was held at his home, Elmwood avenue, Auburn, on March 3. A delegation from the Legislature was present. Mr. Wolfe was president of the State Market Growers' Association.

William A. Sheldrick.

W. A. Sheldrick died at the home of his daughter in Camden, N. J., on Feb. 18, aged 78 years. Mr. Sheldrick has been a resident of the Roslindale section of East Camden for the past 45 years. He retired from the florist business some years ago.

John Hetherington.

John Hetherington, for over forty years identified with the trade in most of the largest cities of the United States, and known to many of the craft, passed away in his 57th year, at Montclair, N. J. Mr. Hetherington was also identified with the Pan American, St. Louis, and Lewis & Clark Expositions. He was buried on Saturday, the 28th of February, at Pequannock, N. J., from the home of his brother, Mr. R. Hetherington.

DUTCH AUCTION STUFF IN ENGLAND.

"Protest" touches a sore spot when he refers to the auction sales of Dutch grown roses, but as a matter of fact the auction sales of all Dutch produce are a source of heartburnings, for all such goods are assuredly grown for the direct purpose of cutting into the general nursery trade. The bulbs, shrubs and roses so sold, are not merely surplus stock, left over after the growers have supplied their wholesale customers in Great Britain, but must be deliberately grown for the purpose. One imagines that there is some sort of organization which collects such goods from the growers and distributes them to various centres.

No one knows where they actually come from. The auctioneer is not concerned as to what the goods really are. His orders are to sell, and sell he does, without in the least worrying whether such plants are true to name or whether they will grow.

Yet after all what can be done? If people will be fooled into buying the rubbish it is their own lookout. Despite the multitude of gardening papers, there are thousands of people who never read them, and who have not the least conception as to what a good plant is really worth. Even people in good circumstances will risk their money if they see a chance of getting plants at a fractional cost.

As a friend remarked, we spend millions on Dreadnoughts to protect our shores, and we leave our ports wide open so that any unscrupulous foreigner may fleece the people.

It is really absurd to think that people do buy these roses and expect something good. Quite recently I saw roses in bundles of six offered on a barrow in London, at 6d. the half dozen. Lady Hillingdon, Gen. McArthur, La Tosca, Melanie Soupert, etc., etc., were on the labels, and the plants were very fair budded stuff to look at. But on the face of it, is it not absurd to think that roses of this class could be offered by a London hawker at the price, unless he filched them, and this is unlikely. Indeed one marvels to think that any grower could work a stock with even the commonest varieties and ship them here to be sold at a penny to twopence each as they are at the sales up and down the country. Yet it is done. How and why is past all understanding. But thank the Lord, these sales will never succeed in squeezing our reliable and old established firms out of business. Some may be affected, but sooner or later, the man in the street will realize that he is making a bad bargain, and will shun the auction rooms and cheap-jack advertisers as he would a pestilence.—*W. A. T., in the Horticultural Trade Journal, London.*

Sheridan, Wyo.—M. E. Leland has leased the greenhouses belonging to the Best Floral Co. and will run them under the title of Glendale Floral Co.

KOMADA BROS.
Manufacturers of all Kinds of
WIRE DESIGNS and FLORISTS SUPPLIES
1008 Vine St., PHILADELPHIA, PA.

Florist's Refrigerators
Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.
UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

SNAPDRAGON

$2.00 per Doz.

White, yellow and several shades of pink. This stock is in splendid condition, long stems and large flowers.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

Mention HORTICULTURE when writing.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your product

want a regular or special supply of the product of the best growers

Consult the Advertisements on these Wholesale Flower Pages

The Advertisers Represented Here are the Leading Concerns in the Wholesale Flower Trade

THE BEST LETTERS

FOR FLORIST'S USE **R** THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the **BOSTON**

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI March 2			CHICAGO March 2			BUFFALO March 2			PITTSBURG February 23		
Am. Beauty, Special	35.00	to	40.00	35.00	to	40.00	40.00	to	50.00	40.00	to	50.00
" " Fancy and Extra	25.00	to	30.00	25.00	to	30.00	30.00	to	40.00	25.00	to	35.00
" " No. 1	20.00	to	25.00	10.00	to	20.00	15.00	to	20.00	15.00	to	20.00
Killarney, Extra	10.00	to	15.00	8.00	to	12.00	10.00	to	12.00	8.00	to	12.00
" Ordinary	6.00	to	10.00	2.00	to	6.00	4.00	to	6.00	4.00	to	6.00
Richmond, Hillingdon, Extra	10.00	to	15.00	8.00	to	12.00	6.00	to	10.00	10.00	to	12.00
" " Ordinary	6.00	to	8.00	2.00	to	6.00	4.00	to	6.00	4.00	to	8.00
Maryland,,Ward,Taft,Sunburst, Ex.	8.00	to	10.00	8.00	to	12.00	10.00	to	15.00	8.00	to	12.00
" " " " Ordinary	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00	4.00	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	3.00	to	4.00	2.00	to	3.00	2.50	to	3.00	.....	to	4.00
" Ordinary	2.00	to	3.00	1.00	to	2.00	1.50	to	2.00	2.00	to	3.00
Cattleyas	35.00	to	50.00	40.00	to	50.00	35.00	to	40.00	35.00	to	45.00
Lilies, Longiflorum	10.00	to	12.50	10.00	to	12.00	10.00	to	12.00	.....	to	15.00
Callas	10.00	to	12.50	8.00	to	10.00	10.00	to	12.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	.....	to	3.00	3.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Freesias	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00	.....	to	4.00
Daffodils	3.00	to	4.00	2.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Tulips	3.00	to	4.00	2.00	to	4.00	2.00	to	3.00	3.00	to	5.00
Violets	.50	to	.75	.50	to	1.00	50	to	.60	.35	to	.75
Mignonette	5.00	to	6.00	4.00	to	8.00	2.00	to	5.00	4.00	to	6.00
Daises	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50	.....	to	3.00
Sweet Peas	.75	to	1.50	.75	to	1.50	.50	to	1.00	.50	to	1.25
Gardenias	25.00	to	30.00	25.00	to	30.00	15.00	to	25.00	.....	to	.....
Adiantum	1.00	to	1.50	.75	to	1.00	1.00	to	1.25	.....	to	1.25
Smilax	12.50	to	15.00	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	40.00	to	50.00	35.00	to	50.00	40.00	to	60.00	25.00	to	50.00
" " & Spren. (100 bchs.)	25.00	to	50.00	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00

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10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

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Wholesale Florists

RICHMOND, IND.

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Please mention Horticulture when writing.

Flower Market Reports

BOSTON The blizzard which visited cities south of us very accommodatingly went to sea without coming to see Boston. After a thrashing rain storm on Sunday, the snow has been disappearing rapidly and there is a springlike tone to the air. Flowers of all kinds are coming forward much more rapidly than the market demands and prices have fallen on everything except American Beauty roses, which still remain very scarce. The supply of Easter lilies is rather light, but there is an abundance of fine callas. Roses are very fine and lots of them, including the newer varieties. Carnations, violets and lily of the valley, plentiful and extra good. Violets are finding a better sale now and quantities of them are seen in corsage use in the shopping streets. Cattleyas are in plentiful supply, but the blooms generally run under size. All bulbous stock is in excessive quantity and selling very cheap. Sweet peas have improved greatly in quality, in the ordinary run and fine Blanche Ferry is extremely popular, holding its own well with the proud Spencers. Hardy ferns are in short supply and of rather poor quality.

BUFFALO Bright sunshine days are bringing in the heaviest supply of the season; there are roses galore, any grade and color, also carnations, lilies, peas, violets and practically every thing along the line and plenty of it. Lilies, which a week ago were a scarce thing at times are seen in regular Easter style. There has been a quietness throughout the whole week. Saturday the bargain sale day was only a slight relief to the wholesaler. Bulbous stock is too plentiful, peas are coming on too heavy and violets have to be forced to sell at any price. The scarcity of Beauties has passed and so has the demand, and this also relates to lily of the valley. Floral work has been light and the accumulation of so much stock has caused the prices to break. It is hoped that the coming week will brighten up things and put the market on a better basis.

CHICAGO The week has brought a decided change in the market. Beginning with the middle of the closing week in February, sales began to fall off and even the Saturday trade did not show a normal demand. March has had three days so far of very light business and stock is accumulating rapidly. The bright sunshine is increasing the supply which would have been extremely gratifying a short time ago, but which this week is only a burden. The change is felt more keenly in roses because the cut has been so small generally since the holidays. The first Spanish iris was seen this week at Poehlmann Bros., and was cut from their place. Rubrum lilies are also among the latest arrivals in this market. There is no marked change in the amount of bulb stock coming now is the complaints of growers of La Reine tulips, some of whom report only one-tenth of their bulbs as flowering. Formosum lilies, immense in size and carried on five-foot stems are offered. Carnations can be had at all prices and all qualities. Very long-stemmed Beauties remain about the same, but there are more of the medium lengths. White carnations, as has been their custom heretofore, are shortening in supply as the green dye season approaches. Perhaps it is a natural revolt from an unnatural color.

PHILADELPHIA Monday and Tuesday of last week were pretty good business days but with the advent of Ash Wednesday the buyers seemed to "get cold feet" and quit buying except for hand-to-mouth absolute wants. The natural consequence was an accumulation of flowers, a drop in prices all along the line and a poor clean-up Saturday. Today, Monday, as we write, a blizzard is raging and few deliveries have come in on account of stoppage of traffic on the railroads, so orders are being filled from Saturday's flowers—that is, what few orders there are. Monday is usually one of the best days of the week for business, but it is a negligible quantity today. Taking the situation as a whole things are not as good as they might be but everybody is trying to be cheerful and no doubt will pull through somehow. All flowers are now plentiful and of very fine quality, so that all we need now is better weather and forget about Lent, both of which desiderations are sure to happen very soon. "God rest ye, merry gentlemen; let nothing you dismay."

ST. LOUIS The market was in such a condition the last week that all the wholesalers were loaded up [illegible] guards with all seasonable [illegible] daily and at prices very low in all grades. Violets and sweet peas were so plentiful that not half of them were

(Continued [illegible])



KILLARNEY QUEEN

From our New York Store can be obtained some exceptionally choice Killarney Queen and Indiana at $6.00, $8.00, $10.00 and $12.00 per 100. A few extra long Queen at $15.00 per 100.

Plenty of other good Roses: Tafts, Sunbursts, Pink and White Killarneys, Wards, Beauties, etc.

Facilities for shipping from New York to Montreal are unusually good, and we would be very glad to have our Montreal Customers bear this in mind and order from our New York Store.

FOR ST. PATRICK'S DAY:

Green Carnation Dye, per package, 50c.

Shamrocks in Pots:

2½ inch	$40.00	per 1000
2 "	30.00	"
1 "	25.00	"

Write for our preliminary list of **Easter Plants.**

RIBBONS—Many new patterns in exclusive Ribbons. If you have not received one of our new catalogues, advise us at once and we will mail you a copy.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON March 2			ST. LOUIS March 2			PHILA. March 2		
Roses									
Am. Beauty, Special	50.00	to	75.00	30.00	to	40.00	60.00	to	65.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	40.00	to	50.00
" " No. 1	10.00	to	15.00	8.00	to	10.00	5.00	to	20.00
Killarney, Extra	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	2.00	to	4.00	3.00	to	4.00	4.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	10.00	6.00	to	8.00	12.00	to	15.00
" " Ordinary	2.00	to	4.00	3.00	to	4.00	6.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00
" " " " Ordinary	2.00	to	4.00	2.00	to	4.00	4.00	to	6.00
Russell, Shawyer	10.00	to	15.00	.....	to	.....	10.00	to	20.00
Carnations, Fancy	2.00	to	3.00	2.00	to	3.00	3.00	to	4.00
" Ordinary	1.50	to	2.00	1.00	to	1.50	.....	to	2.00
Cattleyas	20.00	to	35.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	10.00	to	20.00
Callas	.....	to	10.00	10.00	to	12.50	10.00	to	20.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	2.00	3.00	to	4.00	.....	to	3.00
Freesias	1.00	to	2.00	3.00	to	4.00	2.00	to	4.00
Daffodils	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
Tulips	2.00	to	3.00	2.00	to	3.00	3.00	to	5.00
Violets	.35	to	.50	.15	to	.35	.50	to	1.00
Mignonette	2.00	to	6.00	4.00	to	5.00	3.00	to	6.00
Daisies	2.00	to	3.00	.....	to	.....	1.50	to	3.00
Sweet Peas	.40	to	1.00	.20	to	1.25	.50	to	1.00
Gardenias	20.00	to	25.00	.....	to	.....	10.00	to	20.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	17.00	to	25.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	.....	to	50.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 28 1914	First Half of Week beginning Mar. 2 1914
American Beauty, Special	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	20.00 to 30.00
" " No. 1	5.00 to 10.00	5.00 to 10.00
Killarney, Extra	6.00 to 10.00	6.00 to 10.00
" Ordinary	2.00 to 6.00	2.00 to 6.00
Richmond, Hillingdon, Extra	5.00 to 10.00	5.00 to 10.00
" " Ordinary	2.00 to 5.00	2.00 to 5.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 15.00	8.00 to 15.00
" " " Ordinary	3.00 to 8.00	3.00 to 8.00
Russell, Shawyer	8.00 to 12.00	6.00 to 12.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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Prices Right. Consignments Solicited. Telephone Connection

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and all Seasonable Varieties of Cut Flowers

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Wholesale Florists
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Flower Market Reports

(Continued from page 345)

disposed of. The same may be said of carnations; they, too, came in so plentifully that they sold as low as $10 in 1000 lots for good grades. Roses are now on crop and are bound to be a glut by the end of the week. All bulb stock is down in price as this, too, is more than the demand calls for. It looks as though the market will be even more glutted, as the week opened bright and cold. The first few days in Lent must have hurt some, as the leading retailers say that about the only thing doing is funeral work.

WASHINGTON Washington during the past week has been favored with various kinds of weather, which alternately increased and decreased the supply of flowers of all varieties. Prices have dropped considerably, especially in the case of carnations. The lower grades of roses fell in value, but the better grades have retained their price and are in good demand. American Beauty roses have been somewhat more plentiful, and the Richmonds have been stiffening up and coming along in much better condition. The price on bulbous stock has also dropped materially. Gardenias are in heavier supply and while A1 stock continues to bring as high as $3 per dozen, the other grades can be had for considerably less. The writer's attention was called to some exceedingly fine home-grown lilacs which, when placed beside the foreign grown article, made the latter look poor. Not only are the flowers and the foliage better, but the cost to produce them is much less.

PERSONAL.

E. S. Miller of Wading River, N. Y., has got home from an extended transcontinental trip.

N. F. McCarthy of Boston is in Bermuda eating strawberries and watching the iridescent fishes. Lucky Nick.

Charles Schroeder will dispose of his greenhouse porperty in Edinburg, N. Y., and locate in Florence, S. C., where he has secured a position.

NEW CORPORATIONS.

Charlotte, N. C.—Scholtz, The Florist, capital stock $50,000.

Chicago, Ill.—Henry W. Bruns, Inc., seedsmen. Capital stock, $10,000. Incorporators, H. W. Bruns, Daniel Zinser and Rudolph Bollinger.

Syracuse, N. Y.—The Pierce-Christian company, general florist business, $10,000; Harold S. Pierce, Syracuse; Harold H. Will and Thomas J. Christian, Syracuse.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 28 1914	First Half of Week beginning Mar. 2 1914
Cattleyas	20.00 to 50.00	20.00 to 50.00
Lilies, Longiflorum	8.00 to 12.00	8.00 to 12.00
Callas	8.00 to 12.00	8.00 to 12.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 3.00	1.00 to 3.00
Violets	.25 to .40	.25 to .40
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	2.00 to 8.00	2.00 to 8.00
Gardenias	6.00 to 25.00	6.00 to 25.00
Lilacs (per bunch)	.. .. to 1.50	..... to 1.50
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	25.00 to 35.00
" " & Spren (100 bunches)	10.00 to 20.00	25.00 to 35.00

A PIERSON U-BAR GREENHOUSE AT PITTSBURGH.

Our cover illustration this week shows an interior view of a greenhouse erected by the Pierson U-Bar Company for Mr. H. A. Heinz. Mr. Heinz started with a palm house and two wings arranged after the style here shown, and the results have been so pleasing that he has enlarged his range several times since.

As shown in the picture, the effect is that of an outdoor garden plot; the paths are grass and the lawn mower is in regular use. Efforts like this, where the gardener throws in a lot of individuality and puts his best into his work, are what help to place a gardener in the recognized front rank of his profession.

DURING RECESS.

The Monmouth County Horticultural Society held its tenth annual banquet at Red Bank, N. J., on Wednesday evening Feb. 25. The dinner was of the usual fine character served at such affairs, and was followed by an eloquent speech by Howard R. Cruse of Jersey City. Short addresses were also made by some of the guests. Songs were sung by Percy Hicks and William Dowlen and there were also piano selections. An innovation of the banquet was the presence of women among the diners. This will probably be made a permanent feature.

The Horticultural Club of Boston met at the Parker House on Wednesday evening, March 4. Guests were Chairman Minton, of the Boston Park Commission; Secretary Wheeler, of the Massachusetts Board of Agriculture, and Mr. Rogers, of the Gypsy Moth Commission. The moth problems and 1914 convention matters were subjects discussed.

VISITORS' REGISTER.

Philadelphia—Percy B. Rigby, Pennock-Meehan Co., N. Y. City; Henry Wild, Greenwich, Conn.; E. G. Hill, Richmond, Ind.

St. Louis—S. S. Skidelsky, Philadelphia; C. E. Pruner, representing Poehlmann Bros., Chicago; Mr. Lavine representing Lion & Co., New York.

Washington, D. C.—H. F. Michell, Joseph Goudy and D. T. Connor, Philadelphia; R. T. Beers, representing A. N. Pierson, Inc., Cromwell, Conn.; Adolph Farenwald, Roslyn, Pa.

Chicago—Mr. and Mrs A. Spencer Watts, Mascot, Sydney, Australia; Fred Burki & Son, Pittsburgh, Pa.; Wm. Dittman, Newcastle, Ind.; Sam. Seligman, New York; S. W. Pike, St. Charles, Ill.

Boston—Albert De Smet, Mont St. Armand, Gand, Belgium; G. S. Hay, representing H. A. Dreer, Phila., Pa.; Chas. Schwake, New York; Wm. Jurgens, Newport, R. I.; A. Kakuda, representing Yokohama Nursery Co., New York; O. D. Irwin, representing the Benedict Mfg. Co., New York; W. H. DeGraaf, Leiden, Holland.

The list of exhibitors for the Horticulture, Arboriculture and Forestry Section of the Anglo-American Exhibition includes the names of many of the foremost British firms. The only American participant thus far reported is W. A. Mande of South Orange, N. J., who will exhibit American specialties, including dahlias, cannas, roses and cacti.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

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Aucuba japonica, bushy plants, 35c. to $2.50 each.
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Otto Heinecken, New York City.
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John McKenzie, No. Cambridge, Mass.
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Godfrey Aschmann, Philadelphia, Pa.
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For page see List of Advertisers.

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Henry A. Dreer, Inc., Philadelphia, Pa.
Tuberous Rooted Begonias.
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The Joy Blackberry.
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BOILERS

Kroeschell Bros. Co., Chicago.
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King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
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Hitchings & Co., New York City.

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BOUVARDIAS

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Bouvardia Stock Plants—Single Pink and Red, $5.00 per 100. Orders taken for Rooted Cuttings, ready May and June, $20.00 per 1000. Cash with order. JOHN MOLT, North Wales, Pa.

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Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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Michell's Seed House, Philadelphia, Pa.
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Lilium Giganteum.
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Holland and Japan Bulbs.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

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Jersey-Grown Callas.
For page see List of Advertisers.

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Bulbs of all descriptions. Write for prices.
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For page see List of Advertisers.

CANNAS

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Boddington's Quality Cannas.
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Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.
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108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

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Carnation Mrs. B. P. Cheney.
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A. Begerow, Newark, N. J.
Carnation Prince Edward.

CARNATIONS

Unrooted cuttings, White and Light Pink Enchantress, Harlowarden fine healthy stock, 75 cts per 100; $6.00 per 1000. Sample by mail. W. A. FINGER, Hicksville, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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Chrysanthemums Rooted Cuttings.
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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

Thomas Roland, Nahant, Mass.
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DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—Clean, healthy stock, fully matured, novelties and standard varieties, true to name and at reasonable prices. Also Gladioli, field-grown Hollyhocks, Herbaceous plants, etc. Send business card for catalogue. W. W. WILMORE, Box 382, Denver, Colo.

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GLADIOLUS

John Lewis Childs, Flowerfield, N. Y.
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Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

Gladiolus America and Independence, all sizes. Write for samples. MUNSELL AND HARVEY, Ashtabula, Ohio.

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HOSE

H. A. Dreer, Philadelphia, Pa.

Black Cat Hose, 8 ply, ¾-in., 16c. foot, best quality. Try 25 or 50 feet. U. CUTLER RYERSON, 108 3rd Ave., Newark, N. J.

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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
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PRIVET, Spirea, Barberry and Hydrangeas.—Amoor River North, 12 to 18 inch, $20 per 1,000; 18 to 24 inch, $25; cuttings, $1.50 per 1,000. Spirea Van Houtte, 18 to 24 inch., $3 per 100. Thunberg's Barberry, 8 to 12 inch bran., $2 per 100; 12 to 18 inch, $4; 18 to 24 inch, heavy, $6 per 100; 24 to 30 inch, $8.50. Amoor River Evergreen, 12 to 18 inch, $12.50 per 1,000; 18 to 24 inch, $16.50. Hydrangea P. G., $3.50 per 100. VALDESIAN NURSERIES, Bostic, N. C.

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PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
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Garden, Farm and Flower Seeds.

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Winter, Son & Co., New York, N. Y.
Sutton's Seeds.

Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

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SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

VEGETABLE PLANTS

TOMATOES.
5000 Comet Forceing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 49 West 28th St., N. Y.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 41 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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B. S. Slinn, Jr., 55 and 57 West 26th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers in This Issue

ASPARAGUS PLUMOSUS NANUS SEEDLINGS.
W. H. Elliott, Brighton, Mass.
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ADVANCE VENTILATING APPARATUS.
Advance Co., Richmond, Ind.
For page see List of Advertisers

COLD STORAGE VALLEY.
Michell's Seed House, Philadelphia, Pa
For page see List of Advertisers.

NEW OFFERS—Continued

FIRST AID TO CANNA SELECTION.
Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.
Fred A. Danker, Albany, N. Y.
For page see List of Advertisers.

HEACOCK'S KENTIAS.
Joseph Heacock Co., Wyncote, Pa.
For page see List of Advertisers.

NEW POLYANTHA ROSES.
A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

POTASH.
German Kali Works, Inc., New York City.
For page see List of Advertisers.

RHODODENDRON MAXIMUM, KALMIAS, AND CHOICE PLANTING SPECIALTIES.
C G. Curtis, Callicoon, Sullivan Co., N. Y.
For page see List of Advertisers.

ROSE KILLARNEY QUEEN, SHAMROCKS, ETC.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

SECOND-HAND PIPE FOR TRUCK FARMS AND GARDENS.
Pfaff & Kendall, Newark, N. J.
For page see List of Advertisers.

SHEEPSHEAD SHEEP MANURE.
Natural Guano Co., 815 River St., Aurora, Ill.
For page see List of Advertisers.

SPRING AND SUMMER FLOWERING HOLLAND BULBS.
DeGraaff Bros., Ltd., Leiden, Holland.
For page see List of Advertisers.

WALLFLOWERS.
W. A. Finger, Hicksville, N. Y.
For page see List of Advertisers.

WHY ALPHANO HUMUS MAKES LAWNS, TREES AND SHRUBS THRIVE.
Alphano Humus Co., New York City
For page see List of Advertisers.

SITUATIONS WANTED

Head Gardener

Thoroughly capable man for every department of gentleman's place, desires engagement. Well up in greenhouse and outside work. Specialty: fruit under glass, carnations, roses and 'mums; or as manager of commercial place where results count. Scotch; age 40; married, no family. Address, COMPETENT, care of HORTICULTURE.

SITUATION WANTED as Head Gardener or Foreman; English; age 32; 15 years' experience; best of references as to ability and character. R, care of HORTICULTURE.

SITUATION WANTED—By an all-round greenhouse man, German; good grower of Carnations, Roses, 'Mums, Violets and all potted plants; also to take charge. Please state wages. Address C. F., Box 92, Watertown, Conn.

HELP WANTED

WANTED—Assistant Gardener, a married man; must have had some experience with both inside and outside work. Steady place for right man. H. B. GREEN, Lowell, Mass.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

In writing to Advertisers kindly mention Horticulture

PULVERIZED OR SHREDDED
CATTLE MANURE
Rose and Plant Growers
Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.
The Pulverized Manure Co.,



PULVERIZED
SHEEP MANURE
Carnation Growers
Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.
31 Union Stock Yards, Chicago

HOW TO CONTROL MOTH PESTS.

The depredations of the gypsy and the brown-tail moths on the fruit and shade trees of New England, have not been so serious during the past season as in previous years. Diseases and introduced parasites have attacked the caterpillars of these moths and have caused at least a temporary check on two most dangerous pests. However, certain new territory has been infested and the Department of Agriculture still considers it of vital importance that aggressive measures be continued to control these dangerous insects. It is therefore now issuing Farmers' Bulletin No. 564, entitled "The Gypsy Moth and the Brown-Tail Moth, With Suggestions for Their Control."

Each of the New England States and New York are carrying on work for the control of these insects. The organization varies, as between the States, owing to differences in local conditions, but the same general methods of work are employed. Particular information concerning local conditions may be obtained by communicating with the State officials in charge. Their addresses are as follows:

Maj. E. E. Philbrook, Portland, Me.
Prof. W. C. O'Kane, Durham, N. H.
Mr. E. S. Brigham, St. Albans, Vt.
Prof. F. W. Rane, 6 Beacon street, Boston, Mass.
Prof. A. E. Stene, Kingston, R. I.
Dr. W. E. Britton, New Haven, Conn.
Mr. Geo. G. Atwood, Albany, N. Y.

At recent pomological meetings samples of a new apple, the Virginia Beauty, have been exhibited and greatly admired by those fruit growers who are interested in finding a winter apple that is red in color and hardy enough to stand the northern winters. The new apple is about the size of the Jonathan, resembling it some in shape and color, but has a somewhat different, but fine, flavor. Its season is about two months later than the Jonathan.

IN THE GREENHOUSE
The best fertilizer for greenhouse or outdoor use, for carnations, roses, chrysanthemums and violets, or potted plants, is Sheep Manure, and to be certain of the best — full strength — get



SHEEP'S HEAD
SHEEP MANURE
Guaranteed high percentage of nitrogen, phosphoric acid and potash. Weed seeds killed. Will not cause black spot. Hasten maturity, quicken the budding and stiffen the stems. Write for booklet and prices.
Natural Guano Co., 815 River Street, Aurora, Ill.

SPECIAL GREENHOUSE FERTILIZERS
FOR FLORISTS AND GARDENERS
Formulated and Manufactured by men who have made a life study of
FLOWERS—FRUITS—VEGETABLES
UNDER GLASS
In this Country and Abroad
Proper fertilization under glass is more important than fertilization out of doors—and
Fertilization is Our Specialty
Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*
We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.
We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars
CONSUMERS FERTILIZER CO., Long Acre Building New York City
Factory and Laboratory, Farmingdale, N. J.
Experimental Greenhouses, Catonsville, Md.
Experimental Farm, Farmingdale, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.
NIKOTEEN 30 Per Cent Strength For Spraying
APHIS PUNK For Fumigating
ASK YOUR DEALER FOR IT.
Guaranteed under the Insecticide Act of 1910, U. S. No. 46.
NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

FARMERS' WEEK AT AMHERST.

The Massachusetts Agricultural College will hold the Sixth Annual Farmers' Week, March 16 to 20, 1914. A very comprehensive bulletin has been issued giving full details. Floriculture is assigned to Wednesday, March 18. There will be addresses by A. H. Nehrling on "Opportunities in Floriculture" and on "Glass Houses in the Middle West"; Harry A. Bunyard on "Professional Horticulture"; T. D. Hatfield on "Raising Plants from Seed"; "Commercial Rose Culture" by Wm. H. Elliott; "Out-door Rose Culture," by Eber Holmes; "Methods of Improving Plants," by E. J. Canning. Forestry and market gardening are on the list for Thursday, March 19. Lectures on the latter subject will be given by A. H. Smith, G. W. Trull, J. C. Trull and David Lumsden.

Galva, Ia.—The green houses of A. G. Larson have been purchased by G. F. Pearce. Mr. Larson having decided to go into farming in Minnesota.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
INSECTICIDE
NO ODOR NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



WHY ALPHANO HUMUS

Makes Lawns, Trees and Shrubs Thrive

BRIEFLY, because it's nature's natural balanced ration. It gives to the soil in ideal proportions just those elements most **helpful in inducing not only quick growth, but sturdy growth.**

For lawns, it has the advantage over barnyard fertilizers of being odorless, **entirely free from weed seeds.** It is stronger and lasts many times longer. Not only does Alphano build up the soil in a natural way, but keeps it moist because of its power to hold 14 times its own weight in water. For this reason, if for no other, you can at once see what the value of Alphano Humus would be in keeping your grass green during the hot dry months.

With your grass started up as it is in the early spring, it would be out of the question to put on stable manure. Not only would it make mowing impossible, but it would be decidedly unsightly and offensive at just the season when you want it to be spick and span.

With Alphano Humus, however you can put it on at any time because it is in a powdered odorless form and can be raked into the grass and **left there** to nourish the roots. Next year, you won't need to put any on, because it lasts longer than manures or chemical fertilizers. It's lasting qualities is one of the things strongly in its favor.

Before you take our recommendations, perhaps you would like to know more about just what this Alphano Humus is; where it comes from; and the way it is prepared ready for use.

Our Humus Book tells you just those things—and many more. It gives a detailed analysis of exactly what Alphano Humus contains. The illustrations tell their story and letters from users still further add convincement.

5 BAGS for $5

$12 a ton—$8 by the carload.
F. O. B. Alphano, N. J.

We want you to surely feel convinced that it has the merits we claim, before you spend a dollar for it.

Send for the Humus Book.

Alphano Humus Co.

Whitehall Building, New York City

DO YOU KNOW VERMINE?

John Lewis Childs, Flowerfield, N. Y., writes:—

"I suppose you will be glad to know that **VERMINE** is giving excellent satisfaction. Our greenhouse foreman says that it is the only thing that he has ever used that will kill white ants in the benches."

Valentine Burgevin's Sons, Kingston, N. Y., writes:—

"We wish to say that we find **VERMINE** an excellent thing. We used it on a bench planted with Smilax to kill root lice or maggots, which ate the roots, and after two applications our Smilax is taking on new life and has started off to grow."

The Gardner Nursery Company, Osage, Iowa, writes:—

"We will use **VERMINE** on our out-of-door fields of strawberry plants if the inside test continues as satisfactory as it now seems."

W. N. Craig, Brookline, Mass, writes:—

"I have used **VERMINE** and found it effective against root maggots, cut worms, earth worms, ants and other ground pests."

VERMINE is applied one part to four hundred parts of water by thoroughly soaking the soil. It will protect your crops from the ravages of vermin under ground without the slightest injury to vegetation.

$1.00 Per Quart $3.00 Per Gallon
(Special prices on large quantities).
For Sale by Seedsmen.

We Manufacture
APHINE, FUNGINE, SCALINE, and NIKOTIANA.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals
MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

Whenever your Plants and Flowers are troubled by Insects, call for

NICOTICIDE

THE

INSECTICIDE

Manufactured by

P. R. Palethorpe Co., Inc.
CLARKSVILLE, TENN.

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:
$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

IMP. SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL., $6.50
Dilute with 24 to 40 parts water.

Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON

FERTILIZERS

Tankage, $2.00; Sheep, $1.75; Bone, $2.00; Ashes, $1.50; Phosphate, $2.00; Limestone, $1.00; Blood, $4.00; Nitrate Soda, $4.00; Sulphate Potash, $3.50 per 100 lbs. Smallest quantity sold 200 lbs. Cash with order.

HUDSON CARBON CO., BALLSTON SPA, N.Y.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer [illegible] hand.

Order now in 100 lb. bags

20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., BEVERLY, MASS.

When Writing to Advertisers Please Mention Horticulture

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Warren, Pa.—Lester Graham, additions.

Richmond, Ind.—E. G. Hill Co., one house.

Arden, Del.—H. M. Hare, vegetable house.

Harrisburg, Pa.—E. M. Erb, house, 40x100.

Fulton, Ill.—John H. Dykema, range of houses.

So. Elmhurst, Ill.—Meyer & Dramm, house 40x400.

Rutland, Vt.—Baker's Seed House, house, 45x100.

New Market, N. J.—Lee Osborne, vegetable house.

Flint, Mich.—D. P. Smith, Lapeer street, one house.

Union Grove, Wis.—Meredith Flower & Vegetable Co., range of houses.

Athens, Ga.—Georgia State College of Agriculture, one house to cost $12,000 to $15,000.

Boston—The Boston office of Hitchings & Co., has recently closed a contract with John W. Beal, Hanover, Mass., to erect for him, one iron frame greenhouse 61 feet wide and 109 feet long including the erection of the greenhouse, installation of the steam heating system, benches and concrete work. Referring to our report in a recent issue regarding the house being erected for "Montrose Greenhouses,"—this addition is 60x250 and is being erected complete by Hitchings & Company.

FIRES.

Thoroughfare, N. J.—Clement Budd lost his hothouse by fire on the night of Wednesday, February 25.

Edinburg, Ind.—Thomas Woodard's greenhouses and contents were destroyed by fire on Feb. 16th, with a loss of about $4,000.

McKinley, Pa.—Fire from an exploding oil lamp in the greenhouse of Patrick Whalen, Montgomery county, destroyed that structure early on Thursday, February 26, and ruined $3500 worth of flowers being grown for the Easter season. The flames raged so fiercely that the Whalen family, who live on one side of the greenhouse, and the family of John Livesey, who reside on the other side, fled to the street in their night robes. They were cared for by neighbors.

The fire started about 2.30 o'clock and burned for more than an hour. Members of two fire companies, from McKinley and Jenkintown, a mile to the east, realizing the greenhouse could not be saved, worked in the zero weather to protect the Whalen and Livesey homes. One side of the Whalen house was badly scorched.

The greenhouse was 18 by 150 feet.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.
HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

It's a KinG
Improved Flat Rafter Iron Frame GREENHOUSE
With 5/8-in. instead of 1 1/2-in. Rafters, so we can reduce the depth from 3 1/2 and 4 inches to 3 inches.
Every bit of Sunlight means money to you. Send for Bulletin No. 46 and be convinced.
KING CONSTRUCTION CO.
28 King's Road, N. Tonawanda, N.Y.
"All the Sunlight All Day Houses"

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

2nd Hand PIPE for TRUCK FARMS AND GARDENS
Cut and drilled for Irrigation and Heating purposes. 14-foot lengths and up. Perfect condition with new threads and couplings. Also pipe and tubes cut to sketch for fences and building supports. Guaranteed satisfaction.
PFAFF & KENDALL, 106 Foundry St., Newark, N. J.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

PEIRCE PAPER FLOWER POT
A waterproof paper pot.
Does not fold up or come apart.
Plants in transit retain moisture within the plant ball instead of its being absorbed by the packing, insuring their traveling long distances in perfect condition.
Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.
Only paper pot ever so recognized.
Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.
Samples furnished free.
E. Allan Peirce
401 Oaks Road
Waltham, Mass.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.



POEHLMANN BROS. CO.

AFTER using the **ADVANCE** Ventilating apparatus for three years, have just placed their order with us for equipment for thirteen houses two hundred and fifty feet (250) long, which is convincing proof that the **ADVANCE** Machine is SUPERIOR.

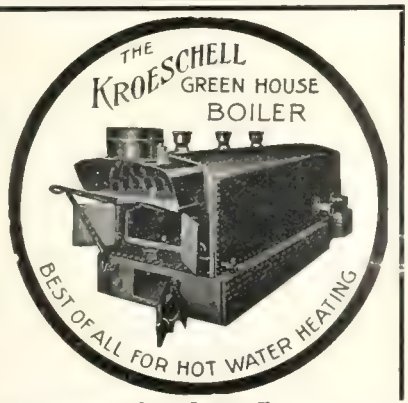
Are you going to Erect some New Houses or do any Rebuilding this Season?

If so write us for one of our catalogues at once. Better get one anyway for reference when in need of anything in our line.

Your business whether large or small will receive our exacting attention. You can make no mistake in dealing with us, as we guarantee entire satisfaction.

It will be to your mutual interest to write us now concerning the work you will have and let us quote you.

ADVANCE CO., Richmond, Ind.



Kroeschell Bros. Co.
466 W. Erie Street CHICAGO

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

METROPOLITAN MATERIAL CO.
PATENTED
Greenhouse Boilers and Construction Material
Please Send for Catalogue and Prices.
1392-1414 METROPOLITAN AVE.
BROOKLYN, N. Y.

GLASS
for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

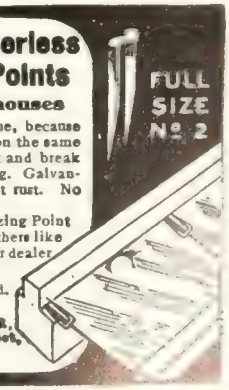
THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

FOLEY
Builds Good Greenhouses
TRY HIM.
THE FOLEY GREENHOUSE MFG. CO.
3275 West 31st Street
CHICAGO, Ill.



Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms. Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO.,
Richmond, Ind.

Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.



U-Bar Greenhouse Excelling Points

THE nearer your greenhouse comes to duplicating actual outside conditions of light and sunshine—the better will be your results and the easier it will be to secure them. This is just common, common sense. Under ordinary conditions the ordinary greenhouse seems light enough. But it is during the short days of winter that your roses have their hardest time and your vegetables are struggling up their steepest grade. Then it is that sunshine light mean so much to their success.

EXTREME LIGHTNESS is one of the main features that U-Bar houses excel in. Glance at the illustrations on the opposite page—they tell their own convincing story of airy lightness and freedom from heavy construction members.

DURABILITY is another U-Bar excelling point. When you consider the fact that every roof bar is a combination of a cypress core and a galvanized steel U-shaped bar you can at once appreciate how strong and enduring it must be.

The Core Bars are chemically treated against decay.

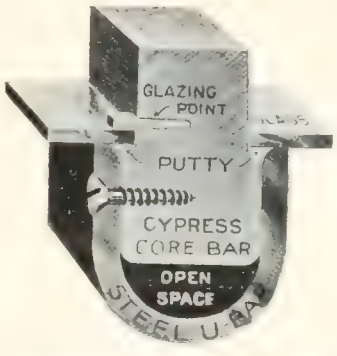
The Steel U-Bars are heavily galvanized against rust.

The U-Bar protects the core bar against the interior alternate moisture and dryness so destructive. Decay is thus prevented.

THE RIGITITY of the entire steel frame, combined with the special U-Bar method of securing the glass, reduces breakage to practically nil.

THE ALUMINUM FINISH of all steel parts gives a glistening effect as enduring as it is attractive.

THE CURVED EAVE originated with the U-Bar construction. Other curved eaves may look like it from the outside but from the inside it is quite another story. No other curved eave is built with a U-Bar. None have the freedom from heavy structural members. No other fully protects the wood portion of the bars from moisture and decay. No other so completely takes care of the condensation from dripping.



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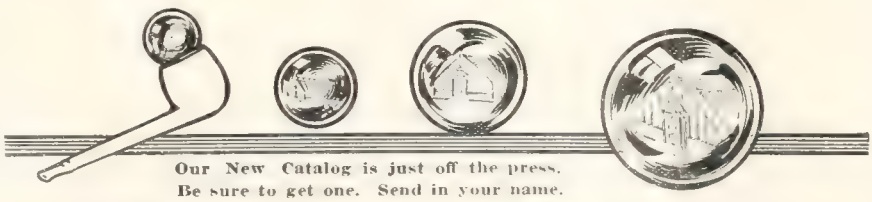
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HORTICULTURE

Vol. XIX | MARCH 14, 1914 | No. 11



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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Chrysantheums

Get in whatever cuttings you need at once if you have not yet done so and just as soon as the cuttings have roots half an inch long get them out into soil so that the future plant will not be handicapped at the start by being weakened in the cutting bench. In potting young stock from the cutting bench use no bone or artificial fertilizer whatever in the soil, as it will only sour it. Fresh loam with a third of rotted leaf mold will be an ideal compost for a first potting. If leaf-mold cannot be procured some decayed cow manure is perhaps the next best thing. We must remember in handling the young chrysanthemums that we are dealing with a plant that is almost hardy and that an abundance of air is very necessary as soon as the plants are sufficiently established. Many modern establishments have a house with side and top air where young chrysanthemums can be kept down to any temperature desired. Do not leave the cuttings in the sand a week after they should have been potted. Get them out just as soon as you can into the light and air.

Care of Young Carnations

Give attention to the propagating bench and see that the cuttings ripen while they are rooting which will make them stand lifting and potting better. This ripening period should begin as soon as they start to shove out the roots. Gradually give them a little more sun each day until by the time they are ready to be potted they will be able to stand full sun. Do not consider any good soil good enough for carnations, but secure the best, which is a fibrous sod from an old pasture that has been stacked up all winter in alternate layers of sod and cow manure in the proportion of one load of manure to four of sod for heavy sod, and one to three for light. If the soil is in any way sour, or deficient in lime, add a sprinkling to each layer, also a sprinkling of soot enough to make it black. As soon as the roots are one-half inch long transplant at once as sand has no nutriment. Pot into thumb pots or flat boxes. Press the soil firmly and do not fill the pot too full, but be sure there is a little loose soil on top to prevent baking. Give shade until they will stand the sun well.

Bulbous Stock for Easter

All bulbous stock intended for the Easter trade will by this time be furnished with abundant roots which will allow any necessary forcing to have them right for Easter. Much depends upon the weather. This class of stock is, of course, better grown in a cool house, but with a cold, dark spell, such as not infrequently occurs near Easter some additional heat may be necessary. It is not always easy to time the various species under this head so as to be just right for Easter. In forcing these bulbs at this season it is well to figure on from three to five weeks. Tulips need about 70 degrees until the bloom is developed and should then be gradually hardened off in a cool house. For hyacinths, narcissi, etc., from 55 to 60 degrees will be high enough, but these will be better for a moderate amount of bottom heat. Of course a spell of hot weather will send these plants on with a rush and it may be necessary to remove them to a cold cellar to retard them. On the other hand, with cold weather a removal to the greenhouse or a closing of the frames to bottle up a little sunheat may be required.

Hotbeds

A line of hotbeds, or a whole block of them, proves most serviceable on any place where small stock is to be raised in quantity, be this for the general spring trade or the replenishment of greenhouse and garden crops. A well-firmed layer of fresh horse manure about 18 inches high, extending a foot or more beyond the space enclosed by the frame; will generate enough heat to defy belated cold spells and to last until all danger is past. The later the hotbed is made the less fermenting material is needed, and the more straw, hay or tree leaves are mixed with the fresh manure the less intense will be the heat, but the longer it will last. Three or four inches of soil is enough for the raising of seedlings or cuttings, and less if potted plants are to be placed in the frame. This layer of earth should not be spread until the first rank heat has escaped; at least seeds or plants should not be put in until the heat has settled down to a steadily held agreeable point. Should severe cold set in right after the bed is set up, a covering of the tightly closed sashes with hay or straw mats and all around the frames will soon start the heat. This covering can then be dispensed with, unless very cold nights and a low degree of heat under the sashes render its use advisable. There are few kinds of seeds, bulbs, cuttings, roots or small potted plants that could not be successfully started and raised in well-working hotbeds.

Fancy-Leaved Caladiums

The florists who have a good trade and a call for something attractive in decorations should plant some of the fine leaved caladiums. It is well to sort the tubers into sizes first so each batch can be planted into separate boxes. A good way to start them is to place some crocks in flats and on this spread moss, on which the tubers are placed quite close and covered with about an inch of moss. These flats should be placed in a frame on a bench where they have from 75 to 80 degrees bottom heat. With careful attention as regards watering, etc., they will soon make roots. When potting give them a compost of fibrous loam, leaf mold, peat and sand. Use pots just large enough to hold the roots comfortably. Give them a night temperature of from 70 to 75 degrees and keep the atmosphere rather humid. Watch the ventilating so they will not get any cold draughts.

Sowing Cosmos

If nice plants are wanted in 7 or 8-inch pots by next fall sow cosmos seed now. To insure a crop of flowers they should be grown in pots or boxes as they are generally injured by early frosts. Sow the seed in flats and when they are large enough to handle, pot them into small pots and keep shifting as they may require until they are in their flowering size.

Mr. Farrell's next notes will be on the following: Azaleas; Cannas; Carnations; Smilax; Orchids; Pansies

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A great flower center

The removal of the Boston Co-operative Growers' Market from Park street to Winthrop square practically assures the assembling of the entire wholesale flower trade of Boston in one location for many years to come. The Boston Flower Exchange has already been located there for some time and all the wholesale flower dealers and supply houses are in close proximity. When Welch Bros. made the first move to Winthrop square a few years ago it was looked upon as a bold venture, but time has demonstrated the far-sighted wisdom of that enterprising house. The existing rivalry between the two markets will probably be intensified for a time by this latest development, but the clustering of all the wholesale interests in one neighborhood will, no doubt, be to the general advantage of both buyer and seller and all will thus be benefited. From now on Winthrop square is destined to be the great centre of New England's flower and plant industry.

New York's grand effort

Only a week more and New York's big flower show will be a reality. This venture is quite a different proposition from that of last year in the same place. Last year's exploit was under the auspices of the S. A. F. and affiliated national organizations whereas the work and responsibility of the present enterprise falls upon local organizations almost exclusively. The confidence which makes this possible is a direct result of the successful outcome of last year's exhibition which emboldened horticultural New York to take the step that hitherto had looked too formidable a risk, for the people of the great metropolis have a surfeit of amusements and it takes skillful handling to get them to adequately support a flower show. We earnestly hope for the success of this enterprise. What is lost through the partial localizing of its support is, we believe, more than overbalanced by the advantage of last year's experience. We look to see the show much improved in arrangement and general effectiveness and feel quite safe in predicting that those of our readers who take opportunity to visit it will feel well repaid, no matter how far they have to travel to get there.

Some trade advertising facts

One of our contemporaries significantly remarks that "it is not where a paper is printed but where a paper is read is what determines its advertising value." We might say, in passing, that arguments on the comparative publicity value of the several florists' trade papers need not keep anybody awake nights worrying over the cost of the advertising. The horticultural interests are in their infancy as compared with many other industries in the amount of money expended for publicity and, as compared with trade journals in other lines, the price of advertising in the florists' trade papers is unprecedentedly low for the service rendered. Whatever may be the comparative gross results from advertising in the various florists' papers it can safely be asserted that every one of these mediums, including those that are not perpetually burning incense to themselves, is giving more than value received and the advertiser who leaves either one of them off his list loses just so much of the special field and special support each exclusively enjoys. Further, if it were possible to select a "best" and force all the rest of these publications out of business by deserting them, the advertiser would then find himself face to face with the usual result following the stoppage of competition—a rate much higher than he now pays. Again, it is not alone "where" a paper is read but *who* reads it that has a bearing upon its value as an advertising medium. Lastly, numerical supremacy in circulation is very much over-rated as a factor in the advertising value of a trade or technical journal.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Cellar Drains

Some growers no doubt had some trouble with the water that started to pour into the cellars when the recent thaw came all of a sudden, with heavy rains to go with it. Where good drainage was provided there was little trouble, although the drains could not carry away all the water in certain cases. Where this was the case there is nothing better to take the water out of a cellar than a little pump called the Kinney Pump which is operated by city water, or the water on the place, as long as there is enough pressure to force the water about. A hose is connected to one end of it and another hose to the other end, and this is then stretched out of the cellars to a place where the water will run away. The The other end is then fastened to a faucet and the water turned on, and the pump will do the rest. These pumps are very inexpensive compared to the work that they perform in times of emergency, and they may lay on the place several years and never be used, yet when the time comes they save many times their cost for they are cheaper than frozen greenhouses with the boiler rooms flooded and the fires put out. Keep a few of them on hand, and they will pay good returns one of these days.

Soot

As the dark weather passes away, the plants will no doubt be a little off color, and the same may be said of the flowers. To remedy this a little soot can be scattered along the benches, not too much of it, just enough to blacken the surface of the soil. This can be watered in when the plants are watered, and will be very little additional labor. Where you are feeding the plants some of this soot in liquid manure, so much the better, as the roots will have all the more chance to get at it. Do not mix too much of it into the water as it is quite strong and may do some damage. If the benches have been limed recently, do not apply the soot, and the same if you intend to lime the benches in the near future. The lime and the soot will not mix to be agreeable to plant growth, and in many cases burned foliage, and the least visible harm—burned roots—are the results. Once the plants are damaged in this way there is some work ahead for the grower to rectify the damage although this is not possible at once.

Nitrate of Soda

This is a very strong fertilizer, and must never be used except with the greatest caution. Even the well experienced growers will hesitate to use it in most cases. If the weather promises to remain clear, and your plants are strong and vigorous, growing well, and you wish to help them along, then a little nitrate mixed into the liquid manure will do the work very nicely.

Scraping Around the Potted Plants

Do not allow any green scum to form on the surface of the soil in the pots. As soon as there is any at all to be seen, go over the plants with a little iron scraper that can easily be made out of a piece of iron laying around the place. Take the plant off the bench, and then run this scraper around to remove all the undesirable scum, and throw the so-loosened old soil into a flat or something that has been provided for it. Then stir up a little more soil so as to leave the surface of the pot a little rough, so that it will take the water better, and also to keep it clean for a while to come. When replacing the plants on the benches set them as we advised last week and you will find that they will grow much more rapidly to say nothing of their more stocky growth.

Other Stock in the Rose House

With the rush of the spring bedding plants we may be tempted at times to put a good many other plants into the rose houses. It is well to do that where there are enough men to take care of both roses and the bedding plants. It is hard for one man to look after too many things, as there will be something that will go to the bad somewheres. We would rather tear out a house of roses if we were to grow the plants in numbers, and then we could grow real good plants, as there would be no crowding.

Odontoglossum Rossii majus

This pretty Mexican odontoglossum should prove a favorite with both private and commercial growers and wherever there are any orchids grown at all, this little gem should be given a place of honor. The plants are dwarf, hardly ever more than six inches high, and therefore take up but little room. The flowers last a long time in perfection both in a cut state and on the plant and the color is all that can be desired in a flower. The plant reproduced in the cover illustration is of the variety called rubescens; the petals and lip a delicate shade of rose, with reddish brown markings on the sepals and toward the base of the petals. The pale yellow crest adds to its beauty. In the type species the flowers are white with purplish brown markings on the segments.

This orchid will grow best in a cool airy house suspended in small baskets or pans from the roof. A night temperature of 50 to 55 degrees will be about right in winter and would also be good during the summer, if there was a way of keeping the temperature down to that point. As it is, one must make the best of it by the judicious use of the ventilators. However, these Mexican odontoglots do not suffer so much from the heat of our New England summers as do their Columbian cousins, the Odontoglossum crispum and its allies.

From now on a little shade will be required, but during the winter, when the days are short and as soon as the sun has lost its burning power in the fall, no shade will be needed. Osmunda fibre with a little live sphagnum makes a good compost, but it should be used sparingly to allow of its drying out quickly in order to prevent it from getting sour. During the time the plants are making up their new growth, plenty of water can be given and even in winter when the new pseudobulbs are made up, the plants should not be allowed to remain dry for more than three or four days at a time.

Naugatuck, Conn. M. J. Cole

GRAND SPRING FLOWER SHOW

MARCH 21 to 28, 1914, Under the Auspices of the

Horticultural Society of New York and New York Florists' Club

and in Co-operation with

THE AMERICAN CARNATION SOCIETY, THE AMERICAN ROSE SOCIETY and THE AMERICAN SWEET PEA SOCIETY

To be held in The New Grand Central Palace, 46th St. and Lexington Ave., New York

FLOWER SHOW COMMITTEE

F. R. PIERSON, Chairman.
JOHN YOUNG, Secretary.
FREDERIC R. NEWBOLD, Treasurer
THEODORE A. HAVEMEYER.
CHARLES H. TOTTY.
W. A. MANDA.
WILLIAM DUCKHAM.
FRANK H. TRAENDLY.
WALLACE R. PIERSON.
JULIUS ROEHRS, JR.
PATRICK O'MARA.
JOSEPH A. MANDA.
JAMES STUART.
GEORGE V. NASH.
DR. N. L. BRITTON.

For schedules, or information, apply to John Young, 53 West 28th St., New York. Telephone, Madison Sq. 7362.

GENERAL INFORMATION.

Final schedules and entry blanks for the Grand Flower Show, which opens in New York on Saturday, March 21, have been generally mailed and extra copies can be had upon application to Secretary John Young, 53 West Twenty-eighth street, New York City. All exhibitors should have their plants at the Grand Central Palace by Thursday afternoon or Friday night at the latest. This will avoid confusion and greatly facilitate the work of the manager.

Secretary Totty has consented to act as chairman of the Board of Jurors, and all those who are to serve as judges on Saturday, March 21, should report to him at 11 A. M. on Saturday, but not later than 11.30. Secretary Young reports many entries already coming in.

Trade tickets may be had at the Secretary's Office, 53 West Twenty-eighth street, in blocks of 25 to 100, at 25 cents each. One hundred or more, at 20 cents each, with the words "compliments of," followed by firm name, if so desired, without any extra charge. The souvenir program will go to press on Saturday, the 14th inst. It has been decided to abandon the proposed lectures during the time of the exhibition.

It seems that every one is enthused with the Flower Show fever in floricultural circles in and around New York. George E. M. Stumpp will exhibit a Japanese Garden, which is expected to cause a sensation. We understand that Mr. Stumpp has been working for over two months, sixteen hours a day, on his exhibit. It is said that nothing like it has ever been exhibited before. Max Schling also promises some rare surprises, but he is keeping "mum" on what he intends to do.

The Horticultural Society of New York will have a pavilion which will be one of the features of the show. Here the ladies and gentlemen of that society will have headquarters and meet visitors and give necessary information. Great credit must be given to Theodore Havemeyer and Frederic Newbold for the splendid work they have been doing and the flower management are to be congratulated on having on the committee such earnest and enthusiastic gentlemen.

EXTRACTS FROM RULES.

All exhibits are divided into two classes—private growers and commercial growers. Any private grower exhibiting any variety of flowers or plants which he may grow for profit or offer for sale, shall exhibit such flowers or plants in classes calling for commercial growers. This, however, shall not debar him from competing as

Entries must be in the Secretary's hands not later than three days previous to date plants or flowers are to be staged. A charge of $2.00 will be assessed for every entry made after this date and the management reserves the right to reject any and all entries received after that time.

Entries for the Rose, Carnation and Sweet Pea Societies' classes must be made in accordance with the regulations provided in this schedule by the said Societies, and sent direct to the secretaries of the different societies, and a duplicate copy of the entries must also be sent at the same time to Mr. John Young.

Exhibits must be ready for examination by the jurors at twelve o'clock noon the day they are staged. *Exhibitors should note very carefully the days the different classes will be staged.*

Plants or cut-flowers exhibited in one class cannot compete in another class and no exhibitor will receive more than one prize in any one class, except in classes for novelties.

In classes calling for specimens, made-up plants will positively not be permitted; the plant or plants must have been growing long enough to have become established in the pot or pots in which they are shown.

Exhibits sent from a distance should be shipped charges prepaid, and addressed:

Flower Show Manager,
c/o International Exposition Co.
New Grand Central Palace,
46th St., & Lexington Ave.,
New York.

Exhibitors, other than those in the trade section, will not be permitted to give away circulars, cards, catalogues or any advertising matter or to solicit business. Exhibitors in the trade section paying for their space may have circulars, cards and catalogues exposed on such space for distribution and may transact business at their respective booths, subject to rules and regulations provided in the contract for the trade sections.

SCHEDULE.

The Schedule complete contains some six hundred classes. The greater part of these have been already printed in our columns and, as a full and complete printed schedule is at the option of anyone sufficiently interested to request same from the secretary, we shall do no more here than to give space to a brief summary of the various sections.

SECTION A—Plants in Flower; Private Growers. To be staged Saturday, March 21st. This section includes Classes 51 to 88 inclusive. The schedule enumerates liberal cash prizes and, as in all the succeeding classes, a number of cups and other special premiums are included.

SECTION B—Plants in Flower; Commercial Growers. To be staged Saturday, March 21st. This includes Classes from 100 to 129 inclusive, the premier prize being $200 for first and $100 for second display of Acacias, covering 200 square feet. As an addenda to Section B, Classes 130 to 140 are for Flowering and Foliage Plants arranged for effect, 200 square feet, and for forced shrubs, herbaceous plants, etc., arranged for effect.

SECTION. C — Palms and Foliage Plants; Private Growers. To be staged Saturday, March 21st. This section comprises Classes 140 to 156.

SECTION D — Palms and Foliage Plants; Commercial Growers. To be staged Saturday, March 21st; comprising Classes 170 to 186 inclusive. Addenda to Section D, Miscellaneous Plants; Commercial Growers. To be staged Saturday, March 21st; including Bay Trees, Box Trees, Conifers

and Japanese Maples in Foliage; covering Classes 200 to 208.

SECTION E — Miscellaneous Plants; Private Growers. To be staged Saturday, March 21st. Class 220 is for Bay Trees and 221 for Strawberries in Pots.

SECTION F—Ferns; Private Growers; To be staged Saturday, March 21st; Classes 230 to 240.

SECTION G — Ferns; Commercial Growers. To be staged Saturday, March 21st; Classes 250 to 257.

SECTION H—Bulbous Plants. To be staged Saturday, March 21st, covers Hyacinths, Tulips, Narcissus, Lily of the Valley, etc.; Classes 270 to 288.

SECTION I—Bulbous Plants; Commercial Growers: To be staged Saturday, March 21st; Classes 289 to 296.

SECTION J—Orchid Plants; Private Growers. To be staged Saturday, March 21st; specimens and groups, comprising Classes 310 to 329.

SECTION K—Orchid Plants; Commercial Growers. To be staged Saturday, March 21st; comprising Classes 340 to 358, the premier prize being $350 and $150 second, for collection of 100 plants arranged for effect, Palms and Ferns permitted.

SECTION L—Orchids, Cut Flowers; Private Growers. To be staged Saturday, March 21st; Classes 370 to 379.

SECTION M—Orchids, Cut Flowers; Commercial Growers. To be staged Saturday, March 21st; Classes 390 to 400.

With the Co-operation and Under the Management of the American Rose Society.

SECTION N—Roses in Pots and in Tubs; Private Growers. To be staged Saturday, March 21st; Classes 410 to 418.

SECTION O—Roses in Pots and Tubs; Commercial Growers. To be staged Saturday, March 21st; Classes 430 to 441. The premier prize in this class is $250, second prize $150, for display to occupy 300 square feet, arranged for effect.

SECTION P — Cut Roses; Private Growers. To be staged Monday, March 23rd; Classes 450 to 470.

SECTION Q—Cut Roses; Commercial Growers. To be staged Monday, March 23rd; Classes 480 to 527. The second division of Section Q for Commercial Growers, is to be staged Thursday, March 26. It includes Class 528, first prize $200, second $150, third $100, for display of Cut Roses covering 200 square feet, arranged for effect, with decorative green of any kind including plants permitted. The Mrs. Gertrude M. Hubbard Gold Medal for the best American Rose introduced in the last five years, will be awarded on Monday, March 23rd. The American Rose Society medals and certificates will be awarded in due course.

With the Co-operation and Under the Management of the American Carnation Society.

SECTION R—Carnations; Commercial Growers. To be staged Tuesday, March 24th; Classes 1 to 24, including a silver and bronze medal sweepstakes prize for best 100 flowers shown.

SECTION S — Carnations; Private Growers. To be staged Tuesday, March 24th; Classes 25 to 34.

SECTION T—Carnations; Commercial Growers. To be staged Friday, March 27th; Classes 35 to 36. The premier prizes in this section are $200 first prize, second $100, third $50, for display of Carnation Blooms, covering 150 square feet, arranged for effect, decorative green including plants permitted. Class 37 in the same section is for Private Growers.

With the Co-operation and Under the Management of the American Sweet Pea Society.

SECTION U—Winter Flowering Sweet Peas; Commercial Growers. To be staged Wednesday, March 25; Classes 540 to 564.

SECTION V—Winter Flowering Sweet Peas; Private Growers. To be staged Wednesday, March 25th; Classes 570 to 571. Class 572 is for Table Decoration of Sweet Peas exclusively.

SECTION W—Miscellaneous Cut Flowers; Private Growers. To be staged Saturday, March 21st; Classes 580 to 599.

SECTION X—Miscellaneous Cut Flowers; Commercial Growers. To be staged Saturday, March 21st; Classes 610 to 625.

SECTION Y — Violets; Commercial Growers. To be staged Wednesday, March 25th; Classes 630 to 631.

SECTION Z—Table Decoration; Private Growers. To be staged Wednesday, March 25th.

In addition to the foregoing the Horticultural Society of New York offers its gold, silver and bronze medals for exhibits of unusual merit.

N. B. Exhibitors remember and note specially when and what dates different sections and divisions are to be staged. All staging must be completed by noon of the staging date.

THE LAST WORD.

Among the donors of additional special prizes are the following: Mrs. F. F. Thompson, Mr. J. P. Morgan, Mrs. Alfred M. Coates, Mr. McDougall Hawkes, Mrs. Delancey Kane, Mr. and Mrs. Adrian Iselin, Miss Georgine Iselin, Mrs. Jas. Roosevelt, Mrs. H. V. R. Kennedy, Mr. Chas. G. Thompson, Mr. Isaac N. Seligman, Mrs. Wm. Combe, F. W. Vanderbilt, Mrs. Richard Gamble, Mr. John J. Riker; Mrs. Archibald Rogers. Silver Cups: Hotel Woodstock, Hotel Astor, Manhattan Hotel.

The general committee has decided that there shall be no formal lectures at this show. The acoustic properties of the temporary lecture hall available at the show last year were anything but good, and the outside attractions were so great that, save for those who sought rest, the lectures had very little drawing power. This decision allows of the setting aside of some much needed space for the comfort of visitors. Plenty of seating room will be provided, and, in addition, there will be a rolling chair service.

The committee has made a very creditable division in the schedule, the various exhibits called for on different days assuring practically a daily change in the arrangement of the show. The orchestra will be stationed in the balcony of the second floor. This will tend to relieve the congestion on the main floor which was at times very apparent last year. The very excellent restaurant service, which was a feature of last year's arrangements will be prominent again this year.

There are still a few good locations available for exhibits, and a letter addressed to Secretary John Young, 53 W. 28th street, New York, will insure the receipt of all information in this respect. There was never, in New York, a better opportunity to bring anything in horticultural lines to the attention of the flower-loving public than that presented in the forthcoming show. J. H. PEPPER.

Chairman Publicity Committee.

THE FRED DORNER MEMORIAL MEDAL.



This medal is offered by the American Carnation Society, under the following conditions:

A gold medal will be awarded to the best 100 blooms of any undisseminated seedling carnation (sports not admissible).

The variety must have been in cultivation not less than three years and must score not less than 85 points, judged by the American Carnation Society's scale of points.

The medal to be awarded to the originator, who need not necessarily be the exhibitor, and can be awarded to the same variety only once.

To be eligible to compete for this medal, 50 blooms of the variety must have been shown at a previous exhibition of the American Carnation Society in a preliminary class and scored not less than 80 points.

"Matchless" by Cottage Gardens Co., Queens, N. Y., won the medal at Cleveland this year.

A preliminary competition will be conducted at each exhibition for eligibility to compete for the medal next year. Fifty blooms must be shown of any undisseminated seedling variety.

The medal is paid for each year with the interest from a fund which was raised by voluntary subscriptions among the members of the A. C. S.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society met in New York City on March 9, and registered the following named roses:

By Dingee & Conard Co., of West Grove, Pa.—"Climbing My Maryland." In all except habit of growth a duplicate of My Maryland, from which it is a sport. A decided climber.

"West Grove" (Liberty × Kaiserin Augusta Victoria). In color cerise pink. Flower flat in form, full and double, cup shaped. Habit of growth vigorous.

By S. J. Reuter & Son, Inc., Westerly, R. I.—"Lady Ann Borodell." Light pink sport of My Maryland. Very pleasing salmon pink shade, deepening in center of bloom to a lively pink. Habit of growth distinct from My Maryland, being much more vigorous, with heavier foliage and heavier growth in every way. Plants without bloom can be easily distinguished from My Maryland.

There have been five entries already made for the New York exhibition, and among them some of the finest pot plants. Robert Simpson, of Clifton, N. J., is the manager of the Rose Division. The entry blanks and final prize schedule are now available and have been mailed to all probable exhibitors. Treasurer Harry O. May will be on hand to give all assistance possible. The gentlemen who are to act as judges are as follows: Messrs. Philip Breitmeyer, Peter Duff, William F. Gude, Frank H. Traendly, F. A. Danker, Leo Niessen, Joseph Heacock, Walter F. Sheridan, W. J. Palmer, George Burton and William Kleinheinz.

The gold medal for the best rose originated in America during the past five years will be passed upon on Monday, March 23. The entire committee, as well as the Executive Committee, will act as a body of judges.

All entries will be filed in duplicate, one with the secretary of the Society and the other with John Young, general secretary. The ruling is, that no rose shall be exhibited with more than two growths; that is, with one pinch, except in a class calling for special displays. These rules it is desired to have generally known.

More members have paid their dues so far this year than has been done in the same period in any year previous.

BENJAMIN HAMMOND, Sec.

NEW YORK FLORISTS' CLUB.

There was an enthusiastic attendance of about 150 at the club meeting, Monday night, March 9. Chairman John B. Nugent gave a detailed report for the dinner committee. Tickets will be $5.00 for each person, and the dinner will be held at the Hotel Astor, on the evening of Thursday, March 26th. Frank R. Pierson, chairman of the flower show committee, gave a detailed report of the progress already made in the affairs of the Grand Spring Exhibition. Everything pointed to an overwhelming success of this affair. William E. Marshall reported for the outing committee that it had been decided to go to Glen Island for the annual outing on July 1st. Joseph A. Manda, recently appointed manager of the Flower Show, gave a vigorous talk, urging every member to assist in getting exhibits, to make the show the overwhelming success it deserves to be. John H. Pepper, State Vice-President for Eastern New York introduced the question of affiliation with the National Society for discussion. Mr. Pepper presented the matter in an able manner, and the discussion was taken part in by many of the members. It was practically the unanimous opinion that our club could not approve or endorse the plan of affiliation as at present outlined.

The committee on awards made the following report:

M. Van Waveren & Sons, N. Y. City. Narcissus Van Waveren's Giant; Narcissus Victoria; Tulip DeWet. These novelties look very promising and the committee would like to see them again under more favorable conditions. Vote of thanks.

Herman Mammitsch, Englewood, N. J. Sweet peas and antirrhinums. Vote of thanks.

W. R. Seymour, West End. Seedling Carnation. Scored 85 points. The committee recommend a preliminary certificate.

Twelve names were handed in for membership and twelve more were elected to membership.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Our attention has been called to the wording of the resolution passed at the Feb. meeting of the Gardeners' and Florists' Club of Boston, which was as follows:

"That this meeting is entirely in sympathy with the National Association of Gardeners in its efforts of co-operation; that it fully endorses the principle and hopes at some time to be able to join with them and others in the furtherance of this object."

The discussion was on a communication from the Secretary of the Gardeners' Association, deploring the ineffectiveness of the work of the various clubs as small unrelated bodies, and pointing out how much could be achieved by the organized co-operation of the different units and inviting an expression of approval, or otherwise, of its idea.

The author of the motion, F. E. Palmer, however, pressed the point as it appeared to him that, if we really wanted to get together there was one logical way of doing so, viz: To join the S. A. F., which was waiting with open arms to receive us and give us the advantages of its organization and experience. He pointed out to members the incongruity of a situation in which, although expressing a desire to co-operate, they refused to join the only available body on the grounds that its membership was too limited.

The result of this was some confusion in the minds of members as to what they were voting for hence the error in our previous mention of the occurence.

FLORISTS' CLUB OF WASHINGTON.

George H. Cooke will serve as president of the Florists' Club of Washington for the ensuing year as a result of the election held in connection with the March meeting of that organization. The other officers selected are R. S. Jenkins, vice-president; Elmer C. Mayberry, secretary; William F. Gude, treasurer, and Adolphus Gude and Theodore Diedrich, trustees.

Mr. Gude presented the suggestions of A Farenwald, of Roslyn, Pa., with respect to the affiliation of the various individual clubs throughout the country with the S. A. F. and O. H. As explained in a letter from Mr. Farenwald addressed to Mr. Gude, the large membership thus obtained would be advantageous in furthering the best interests of the craft with respect to nation-wide advertising, tariff and other legislation, express, parcel post and freight matters, etc. The following was then adopted: Moved, that it is the sense of the Florists' Club of Washington, D. C., that we affiliate with the S. A. F. and O. H. along the lines laid out by Mr. Farenwald, provided, that the national organization votes to admit local clubs as a whole.

Mr. Gude advised the club of his selection as a member of the Executive Board of the S. A. F. and O. H., stating that he would be present at the Board's next meeting in Boston on March 17, and that he would bring the matter of the William R. Smith Memorial before it. This led to a general discussion of that subject and many suggestions were offered as to what form this memorial could take. All of the speakers were in favor of a building to be the national home of the S. A. F. and O. H., its meeting place and that of any other organization of florists that might care to so make use of it, or the dedication of a room or suite of rooms in another memorial soon to be erected which would answer the same purpose.

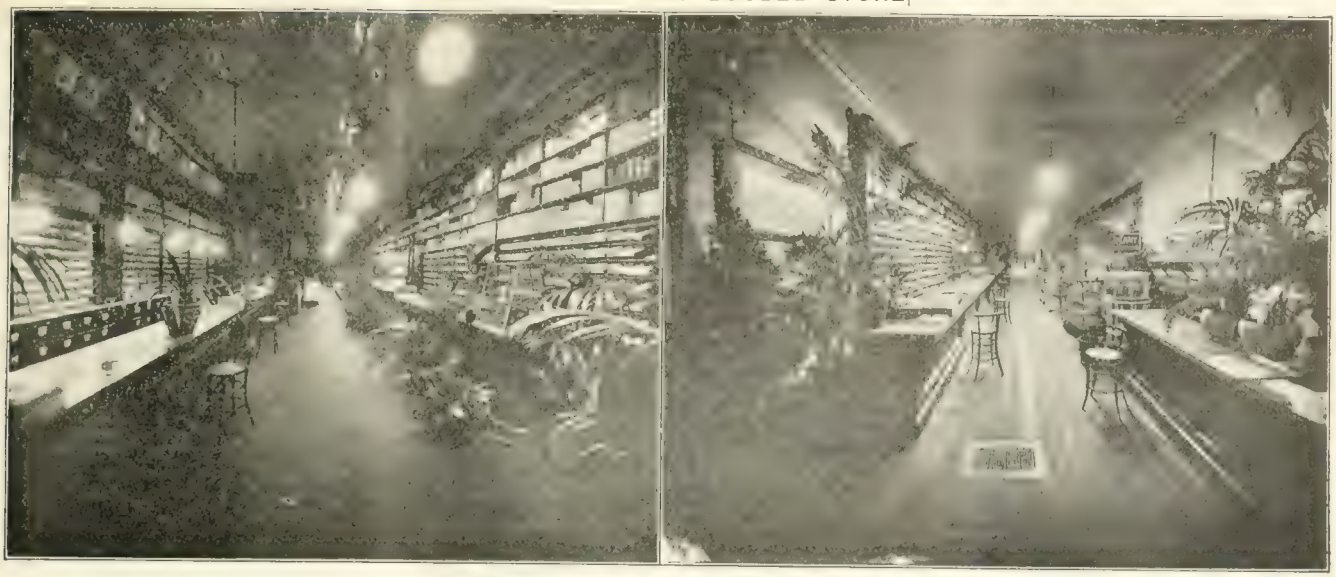
Imke Wessel Staalman, of the firm of A. J. Van Der Vies & Co., of Oakton, Va.; George W. Hess, superintendent of the National Botanical Gardens; Frank P. Gaul, manager of the Washington branch of the S. S. Pennock-Meehan Co.; Henry Witt and C. H. Jenkins, were elected to membership in the club.

Following the completion of the regular business of the evening an informal discussion was had on various matters of interest to the local trade.

PITTSBURG FLORISTS' AND GARDENERS' CLUB.

The meeting of this club on the 3rd inst. was in the Fort Pitt Hotel. There was quite a good display of flowers, though nothing to what would have been shown had not the unprecedented storm in the east prevented shipments from that section. S. S. Pennock-Meehan Co., Philadelphia, managed to get through some fine specimens of Killarney Brilliant. The bright, lively color of this rose was

DREER OPENS NEW DOUBLE STORE



Last week was reception time at the Dreer stores in Philadelphia and a cordial invitation to the public to inspect their new double store, 714-716 Chestnut street, was extended through the daily newspapers. The new addition was opened on Monday, March 2nd, and a reception was held throughout the entire week, during which time many friends and customers availed themselves of the opportunity to inspect the new premises.

The two stores are connected through a large archway. Both have been renovated throughout and are provided with exceptional facilities for handling a large volume of business. The principal feature of the improvements is an entire duplication of the vegetable and farm seed departments, including lawn grass seeds, etc., thus giving double the counter space previously available for this purpose and permitting the employment of additional sales people.

Large space has been provided for displaying tools, implements, spraying machinery, poultry supplies and the numerous other merchandise to be found in an up-to-date seed store. A special plant department is another feature of the re-arrangement of the stores, where expert plantsmen will give correct information and attend to the wants of customers in this line. Provision has also been made for giving exhibitions of flowers at seasonable times, beginning in May and continuing until late in the fall. For this purpose a large room, with glass cover has been provided and exhibitions will consist of the new and leading varieties of flowers and should be a great aid to customers in making selections for their gardens. The shipping and delivery department has not been overlooked, but has been greatly enlarged and given ample space to permit of the quick and efficient service so much appreciated by purchasers of seeds, plants, etc., during the spring season.

For the occasion of the opening of this new addition to the Dreer establishment, both stores were tastefully decorated, large palms, bay trees and many other decorative plants being used with good effect.

---

much admired, and it was felt that there was a good place for it. It was awarded a certificate of merit.

T. Tyler, with Dr. Shafer, an orchid lover of Pittsburgh, showed Odontioda, Cattleya Trianae and Chorizema, and was awarded a cultural certificate.

Carl Becherer, gardener at Dixmont Hospital, Dixmont, Pa., showed a collection of hyacinths and tulips for which he received a cultural certificate. A similar award was given to Herman Rapp, gardener for D. T. Watson, Leetsdale, for cinerarias and to Wm. Thomson, Jr., gardener with W. P. Snyder, Sewickley, for Primula obconica.

It was voted that at the April meeting there should be an entertainment, refreshments would be served, the ladies invited, and a speaker secured to make an address.

A very entertaining and instructive address was given by A. B. Coggeshall of Carnegie Institute, on the Modern Scientific Methods of Finding, Preserving and Mounting Fossil Remains. The lecture was illustrated by lantern slides and though it did not have much to do with flowers was yet mighty interesting.

H. P. Joslin, Sec'y.

CHICAGO FLORISTS' CLUB.

The meeting on March 5th was "Novelty Night," and brought out the following interesting exhibits: A. N. Pierson, Inc., Cromwell, Conn.; New Rose Hadley. Bassett & Washburn; Mrs. George Shawyer, Cecile Brunner, Jonkeer, J. L. Mock in roses and Belle Washburn and Helen in carnations.

Wendland & Keimel, Elmhurst, Ill.; Milady, Sunburst, Killarney and Bulgarie roses.

Peter Reinberg; Mrs. Aaron Ward, Richmond and Sunburst roses.

S. S. Skidelsky & Co., Philadelphia, Pa.; New carnation Philadelphia Pink.

H. W. Wehrmann, Maywood, Ill.; sweet peas.

Poehlmann Bros. Co.; large exhibit of cattleyas, both plants and cut blooms.

A. T. Hey, Maywood, Ill.; cattleyas.

Carnation Philadelphia exhibited by Skidelsky scored 86 points and will be awarded a club certificate of merit. Hadley rose, exhibited by A. N. Pierson, will also receive a certificate of merit.

A communication from A. Farenwald, regarding affiliating with S. A. F. was read. The matter received considerable discussion by many prominent members. Motion was carried that the Chicago Florists' Club favors affiliation with the S. A. F., and recommends the payment of $1 per year dues for each member. The Lake Shore & Michigan Southern Ry. was selected as being the most desirable route to the S. A. F. Convention to be held in Boston in August, and the transportation committee will make arrangements accordingly.

David Lundin, Clarendon Hills, Ill.; Peter Schowbo, 5434 N. Seeley avenue, Chicago; James E. Jones, Richmond, Ind.; A. M. Sanders, 72 E. Randolph street, Chicago, and J. J. Grullemans, Lisse, Holland, made application for membership.

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NATIONAL ASSOCIATION OF GARDENERS

GARDENERS' AND FLORISTS' CLUB OF BALTIMORE.

The annual election of officers of the Gardeners' and Florists' Club of Baltimore took place last Monday night and the following named were elected: Wm. J. Johnson, president; James Hamilton, vice-president; N. F. Flitton, secretary; George Talbot, financial secretary; F. G. Burger, treasurer; Charles M. Wagner, librarian. With the exception of the vice-president all were re-elected.

After the meeting was adjourned the members attended a banquet at Hotel Emerson. Ninety banqueters were seated in the banquet hall which was beautifully and bountifully decorated with drapings of Spanish Moss from Florida. There was also many fine foliage plants and each of the tables had a handsome bouquet of flowers. The long head table was simply burdened with Magna Charta and American Beauty roses, contributed by George Morrison. Isaac H. Moss was toastmaster and introduced each speaker by telling a good story that was apropos. President Johnson thanked the members for being re-elected and told of the fine condition the club was in. The next speaker, Wm. F. Gude, of Washington, proved to be the real orator of the evening. He paid a glowing tribute to the late Wm. R. Smith. He said Mr. Smith, as far as money was concerned, died a poor man, but he was, when good deeds and his usefulness and uplifting of the floral and gardening interests were concerned, one of the richest men the world has ever known. He outlined a proposed "Wm. R. Smith Memorial Hall," to be erected in Washington. Prof. H. J. Patterson, president of Maryland Agricultural College, made a very earnest address, showing how the college could and was always anxious to help the florists and gardeners. He thought there were great opportunities for growing vegetables under glass in winter in Maryland—the nearness to so many large cities affording most excellent opportunities to dispose of such products at good prices. Geo. Weems Williams followed with some entertaining stories, and spoke in high praise of two members of the club, Messrs. Flitton and Boone, whose services were of untold value to the parks. J. Otto Thilow of Philadelphia told how glad he was always to come over to the club's annual meetings and help experience the genial good will and "nearer to God" spirit the occasion produced, and when he referred in complimentary terms to John Cook, Maryland's "rose king," there was great applause. Prof. Thos. B. Symons, the next speaker, acknowledged that it was the work and exhibit made by the Baltimore Gardeners' and Florists' Club that made the last exhibition of the State Horticultural Society not only the greatest in its history, but brought with it the first financial success. He also gave his ideas of how the retail florists should advertise to increase a demand for flowers. David Rust, secretary of Pennsylvania Horticultural Society, also touched on the importance of advertising and mentioned how some advertised by filling their windows full of flowers.

Mr. Meehan, also of Philadelphia, made some brief remarks in similar vein. Richard Vincent, Jr., supplemented Mr. Gude's remarks in praise of the late Wm. R. Smith, whose great work had made him more famous than a dozen of the greatest generals in history. Mr. Vincent gave unstinted praise of the resources of the great state of Maryland, of which he felt proud to be a citizen. His address was warmly applauded.

SOCIETY OF AMERICAN FLORISTS

In order that all florists' clubs or other organizations may discuss the subject intelligently, President Theodore Wirth directs me to publish the recommendation made by the Board of Directors at the convention in Minneapolis last August. Action on this recommendation will be taken at the convention to be held in Boston.

"That the fee for members of any regular florists' clubs who wish to join the S. A. F. and O. H. as a body will be reduced to three dollars for the first year, and the annual dues thereafter to be two dollars per year for each member thereof. These dues must be paid to the S. A. F. and O. H. by the treasurer of each club and not by the members individually, and we further recommend that our constitution and by-laws be amended to comply with this recommendation."

Department of Plant Registration.

Public notice is hereby given that as no objection has been received or filed to the registration of Nephrolepis "New York," by George Giatras, 463 Summit street, West Hoboken, N. J., same becomes complete.

President Theodore Wirth has re-appointed W. F. Gude, Wallace R. Pierson, and F. R. Pierson as the committee having in charge the matter of making the arrangements for an experimental rose garden in Washington, D. C.

JOHN YOUNG, Sec'y.

SILVER PINK SNAPDRAGON



The accompanying cut shows a bench of our famous Silver Pink Snapdragon from seed, growing on our place last Memorial. It is a beautiful color and the

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variety in existence. A lot of fine plants, that will flower from Memorial throughout the summer, now ready at only $3.00 per 100; $25.00 per 1,000.

It is also a great bedding variety. Seed should be sown at once. Price, $1.00 per pkt.; 3 for $2.50; 7 for $5.00. Free cultural directions. All orders cash.

Remember—the MOST PRODUCTIVE variety in existence, and **productiveness** spells **profit.**

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ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.

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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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Extra Strong 6 inch, 50c each.

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Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

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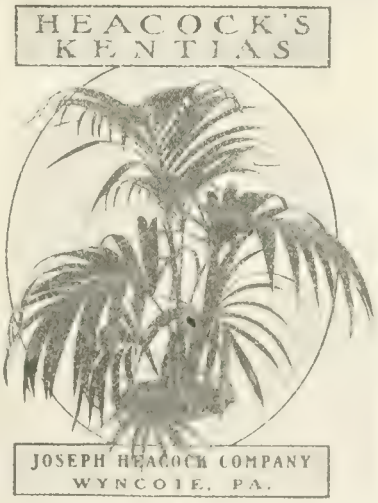


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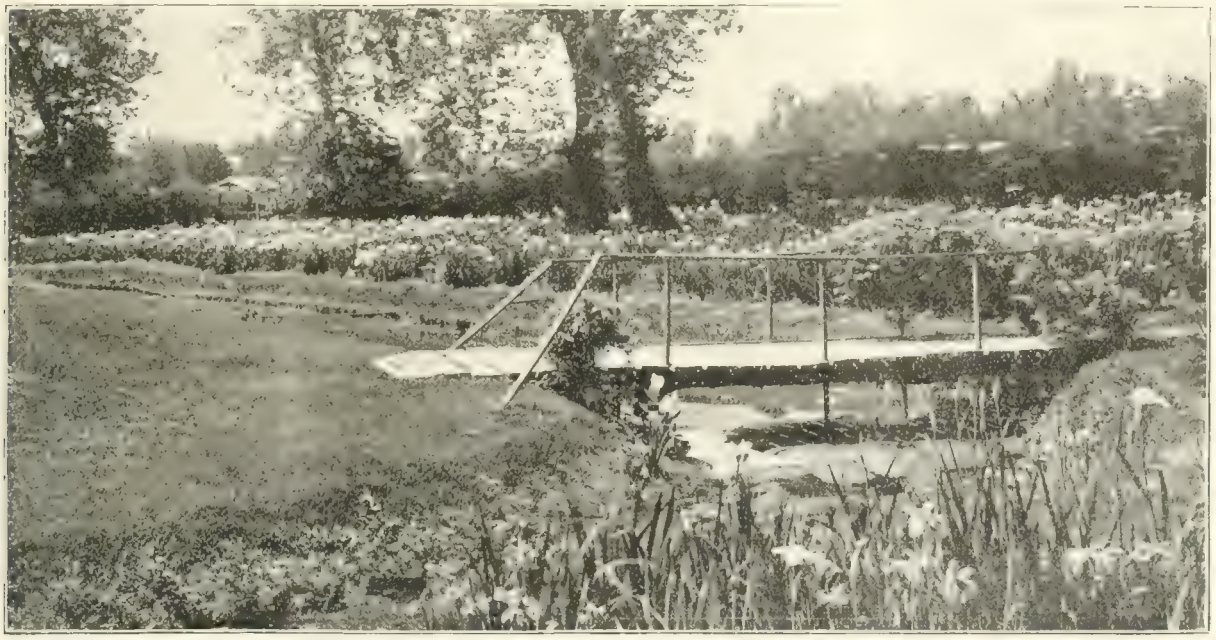
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9. **Oniga-shima.** Rich purple with many white veins.
10. **Shiga-no-ura-nami.** Violet-purple, veined with white.
22. **Sano-watashi.** White, with canary-yellow centre.
24. **Gosetsu-mai.** White veined and traced throughout with aniline-blue.
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26. **Uchiu.** Bright purple with crimson sheen.
28. **Tsurugi-no-mai.** Rich, deep purple.
29. **Rish-no-toma.** Silvery white, densely veined and minutely dotted with violet blue.
44. **Yoshimo.** Creamy-white, delicately veined with purple.
47. **Renjo-no-toma.** Petals peculiarly fluted, light violet, with white halo and light veinings.
53. **Samidare.** Silvery white, suffused throughout with rich ultramarine blue.
60. **Kagaribi.** Ground color white beautifully traced and marbled with ultramarine blue.
69. **Waku-hotei.** Pure white veined with purple.
74. **Renkaku.** White, densely marbled and spotted with bright violet-purple.
94. **Komochi-guma.** Rich, velvety pansy-violet.
107. **Tokyo.** The finest pure double white.
108. **Shimosa.** White ground, minutely and densely spotted throughout with bright violet purple.
109. **Hosokawa.** Royal purple with white veinings.

Price: Any of the above. 15 cts. each; $1.25 per doz.; $8.00 per 100; $70.00 per 1000. The set of 20 sorts for $2.00.

Three Petaled Japanese Iris

No. Order by name or number.

11. **Hano-no-nishiki.** Bright violet-purple, veined with white.
12. **Shippo.** Light lilac, densely veined with purple.
14. **Shishi-ikari.** Light ground color, veined and mottled with dark violet-purple.
18. **Meiran.** White, densely marbled and veined with light violet.
23. **Yedo-Kagami.** Magenta-lilac, veined with white.
33. **Kakujakuro.** White ground, marked with violet-blue in such a manner that makes it appear as though the color was dusted on.
43. **Shi-un-ryo.** Grayish-white, deeply and densely veined and suffused with violet.
55. **Schuchiukwa.** A showy variety, crimson-purple with white veins and white halo.
62. **Misutmoshito.** Violet-purple, marbled with purple.
67. **Kigan-no-misao.** A late flowering pure white.
73. **Shirataki.** Silvery-white, border of petals suffused with light Parma-violet.
77. **Yayaura.** White, occasionally marbled with light violet.
82. **Ari-Ake.** Violet-purple, marbled with white.
85. **Ojochin.** Light violet-purple, the larger veins white.
86. **Sei-o-bo.** Large pure white, with faint violet-purple markings.
96. **Tebotan.** White ground, with prominent violet-blue veining.
97. **Shiro-fungen.** Light ground, suffused throughout with bluish violet.
100. **Yomo-zakuru.** Light ground color, densely veined and suffused reddish-purple.
102. **Shi-no-maki.** Rich royal purple.
106. **Sakata.** Light violet or lavender blue.

Price: Any of the above. 15 cts. each; $1.25 per doz.; $8.00 per 100; $70.00 per 1000. Set of 20 sorts for $2.00.

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The Above Prices Are Intended for the Trade Only.

During Recess

Rochester-Buffalo Bowling Match.

Wednesday, March 5th, was the date set for the Rochester bowling team to visit Buffalo in the return match. A small delegation came on the morning train and were met by the Buffalo committee and taken in autos to the several local greenhouses and park conservatories and then to lunch at the Ellicott Club. The second section came at 5.30 and after visiting Buffalo's up-to-date flower shops they were taken to Messinger's Hof Brau for dinner at 7.30. The table decorations were under the management of S. A. Anderson and were carried out in Killarney roses, cattleyas, laelias and oncidiums. The room was banked with ferns and palms and southern smilax covered the walls. About 120 florists were present and a brief welcome address was given by the newly elected President of the Buffalo Florist Club, W. H. Eiss. S. A. Anderson was toastmaster and a number were called upon for a few remarks, including President Dunbar of Rochester, M. Keller, George B. Hart, Postmaster Kasting, W. J. Palmer, S. J. Mahoney, D. Seymour, Supt. of Buffalo Parks; H. E. Bates and others. In many of the speeches made by the visitors, the ending was on this order—"We will take the trophy with us tonight.

Arriving at the bowling alleys Announcer Neubeck fired the shot for the men to line up and laid down the rules of the game to the players. The judges were in their position and the rooters also. Below are a few notes depicting the excitement in a few frames and how Buffalo did not let that handsome Lord & Burnham trophy get away.

Salter up, a little nervous, but a spare resulted; Sandiford the old reliable, a strike; the club yell went up, strong and healthy. Keller brought down 9 and missed the 10th; Vick was doing good at 67 in the 3rd; Bowland was rolling nice and easy and indications pointed toward a high score; this was in the 7th. The rooting for Buffalo had some telling effect on the nerve of Salmon and Jenny, as they could not pick the last pin. The visitors were quiet until the awakening of the 9th, when strikes and spares were as easy to get as corrections during the Lenten season. Keller made a few "Gates Ajars," but managed to pick one often and [illegible] Brown Colonial. Four strikes in succession took the heart out of the last frame and the visitors were rapidly falling behind. The finish of the Buffalo team was Sandiford and the old reliable was [illegible] 211.

The Rochester announcer then had his little spell

"There is lunch in the rear
For every one here."

After a few minutes' intermission, the contest was again on. Buffalo weak, and for several frames the visitors strong from the beginning. The rooters were scattered about and not much life was shown. The Buffalos could not compete successfully and it looked as if the pin setters had been bribed. Some of the pins were glued and would not drop and Buffalo was getting weaker at every frame. Rochester going at a terrific clip; pins dropped like prices at the wholesaler's on a rainy day, and they could not be stopped. George Hart was all excited, Bates lost his voice, but Mike Keller had that everlasting smile and made strikes as easily as striking matches. The game went on and the visitors were leading by 120, a big margin in the 9th frame. The Buffalo rooters were called upon for the help-out, but too late, and the second game ended with a victory for Rochester by 66 pins.

The third game was on, and everybody was excited. Betting was not allowed. Up to the 4th the game ran pretty evenly. In the 6th, Rochester was leading, but in the 7th the Buffalos had the lead. In the 8th, many over-anxious to swell their scores and beat their man, broke with 7 and 8 pins. The 10th frame showed the score for Vick at 215, which helped out the [illegible] Speidel and the ending was a victory for Buffalo by [illegible] off of the [illegible] the last game totaling 961.

All in all it was a grand turnout; in fact much larger than had been expected but so much enthusiasm had been shown at the previous game that every member who attended certainly had an excellent evening's sport. The visitors were escorted to the train by the club's band in the early hours of the morning and all reached their destination safely as Capt. Salter had charge of the visiting crew.

ROCHESTER	1	2	3
Salter,	158	151	211
M Keller	102	171	140
Bowland,	161	156	171
Salmon,	141	106	141
Jenny,	151	185	190
	713	869	793

BUFFALO.	1	2	3
Sandif'd,	219	157	193
Speidel,	183	148	145
Vick,	188	134	215
Walter,	182	156	154
J. Streit,	137	141	154
	909	736	861



Gardeners' Reunion.

The annual "Gardeners' Reunion" will take place at Thum's Alleys, Broadway and 31st street, New York, on Tuesday evening, March 24. The event will consist of bowling from 1 o'clock in the afternoon till 6.30 and dinner at 7 P. M. A number of valuable prizes have been donated by trade friends to be awarded for bowling. James Stuart of Mamaroneck is chairman of the committee of arrangements and tickets can be obtained from him by writing or in person at the Flower Show in Grand Central Palace. This reunion is a volunteer affair and not under the management of any organization.

"I enjoy your paper very much and find lots of helpful articles in it.
Rhode Island. A. T.

A KUT IN KANNAS

KING HUMBERT, $1.75 per 100; $15.00 per 1000

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THE FIVE LEADING CANNAS IN THEIR RESPECTIVE COLORS

THE BEST BRONZE CANNA KING HUMBERT. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

THE BEST RED CANNA METEOR. 4 feet. $1.00 per doz.; $8.00 per 100; $75.00 per 1000.

THE BEST PINK CANNA ROSEA GIGANTEA. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

THE BEST YELLOW CANNA GUSTAV GUMPPER. 3½ to 4 feet. $1.00 per doz.; $8.00 per 100; $75.00 per 1000.

THE BEST WHITE CANNA MONT BLANC. 3½ feet high. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Red-flowering, Green Foliage

LOUISIANA. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
A. BOUVIER. 5 feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.
BEAUTE POITEVINE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
BLACK PRINCE. 3 to 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
CHARLES HENDERSON. 4 feet. 25 cts. per doz.; $1.85 per 100; $16.00 per 1000.
CRIMSON BEDDER. 3 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
DUKE OF MARLBORO. 4½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
J. D. EISELE. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
EXPRESS. 2 to 2½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
PRESIDENT CLEVELAND. 3 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
PRES. McKINLEY. 2½ to 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PRES. MEYER. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PILLAR OF FIRE. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
TARRYTOWN. 3½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

White and Cream Shades

ALSACE. 3½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.

Pink-flowering Cannas

L. PATRY. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
LOUISE. 5 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
MLLE. BERAT. 4½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.
VENUS. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Bronze-leaved, Red-flowering Cannas

BRANDYWINE. 4 to 5 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
DAVID HARUM. 3½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
EGANDALE. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
KING HUMBERT. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
LEONARD VAUGHAN. 4½ feet. $3.75 per 100; $35.00 per 1000.
MUSAEFOLIA. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
ROBUSTA. 6 to 8 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
SHENANDOAH. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

Red, Gold-edged, Spotted and Yellow Cannas

DUKE OF YORK. 4 to 5 feet. 15 cts. each; 60 cts. per doz.; $4.25 per 100; $40.00 per 1000.
GLADIATOR. 4 feet. 30 cts. per doz.; $2.00 per 100; $18.00 per 1000.
GLADIOFLORA. 3½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
JEAN TISSOT. 5 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
MAD. CROZY. 5½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
QUEEN CHARLOTTE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
PREMIER. 2½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
SOUV. DE A. CROZY. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orange Shades

WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
PENNSYLVANIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
MRS. KATE GRAY. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orchid-flowering Cannas

ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
AUSTRIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
INDIANA. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.00 per 1000.
ITALIA. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

Newer Cannas

DR. BUDINGEN. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
DR. ROBERT FUNCKE. 4½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
FURST BISMARCK. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
WILLIAM SAUNDERS. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

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We are the largest handlers of Cannas in the world. Our prices on Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three and sometimes four eyes—are sound, dormant, and are packed 250 in a box. Two can be "cleated" together and shipped as one. One box of 250 sold at thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices on quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us we will substitute or send only the best for all purposes.

Chicago and Western Agents for our Cannas, ONLY—
WINTERSON'S SEED STORE, 166 N. Wabash Avenue, Chicago

ARTHUR T. BODDINGTON

SEEDSMAN 342 West 14th Street, NEW YORK CITY

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

Seed Potatoes in Maine.

In accordance with the action of the Maine Seed Improvement Association, the Department of Agriculture of Maine will co-operate with the Seed Association the coming year, in assisting the members to grow better seed stock, especially of potatoes. The growing of potatoes for seed is an important branch of the potato business and should increase with proper arrangement.

There is much complaint on the part of the southern growers using Maine seed that a great loss is suffered from impurities of variety and from diseased stock. The situation is such that unless there is immediate improvement in the quality of seed stock sent out from the state, the southern growers will seek other potato centres for their seed.

To improve the seed stock of the Maine grower, a rigid inspection system will be established by the Seed Improvement Association with the assistance of the Department of Agriculture. This system will include a careful inspection of the seed before planting, by men who are familiar with the diseases which infect Maine potatoes, and further inspection at blossoming time and before harvest.

Rules will be made covering the handling of the seed and of the crop tending toward elimination of disease and varietial impurities.

Potatoes which reach a standard of purity and of freedom from disease will be certified and recommended by the state agricultural department and the Seed Improvement Association.

A portion of the cost of this inspection work must be borne by the grower who will be repaid in the higher prices received for his seed stock. Careful growers who realize the need and desire to improve the standard of the potato crop of Maine are invited to write the State Department of Agriculture or the secretary of the Seed Association at an early date.

Onion Seed Shipments From Canary Islands.

(Consul Homer Brett, Teneriffe.)

During the year 1913 the quantity of Bermuda onion seed declared at this consulate for shipment to the United States was 93,378 pounds, valued at $84,645, both quantity and value exceeding those of any previous year. Because of the exceedingly high prices offered in 1912 there was a large overproduction in 1913, and several thousand pounds of this season's crop remain here unsold. The temptation to dispose of this seed next year will be great, and unless American importers are careful to buy only from growers or dealers of known integrity they will run the risk of receiving old seed.

Local shippers complain that the lack of uniformity in the trade names for onions leads to frequent misunderstandings and difficulties. They say that in the trade the term "white onion" is used to designate an onion which is in reality yellow, and that those onions which are actually white are known as "crystal wax." Some American importers have ordered "white onions," and when their product turned out to be of the yellow variety have expressed dissatisfaction and threatened legal action. It is hoped that a proper understanding of the trade names may save future trouble.

Another Unreasonable Seed Bill.

Another seed bill was filed in the Maryland House on March 4th. (H. R. No. 611.) It is drawn on the lines of the old type of seed bill discarded by recent legislation. It is conflicting in its provisions, ambiguous, in parts unconstitutional and unreasonable.

It provides that every bushel of seeds and cereals sold for seeding purposes in Maryland shall pay an inspection fee of two cents. This would create a great deal of trouble and supply too much money.

Chicago Seed Notes.

Supply of peas in most varieties is equal to the demand. Beans are scarce.

Onion sets are getting scarce and there are still many weeks of the selling season left. At present the Leonard Seed Co. quotes as follows, on lots of one hundred bushels: Red $1.75 to $2.00; White $2.25; Yellow $2.50. Stock was in excellent condition when harvested and has kept exceptionally well.

There is a strong probability amounting almost to certainty that quotations on lawn grass seed will be higher than those of last year. The sections of the country that suffered from drouth last summer included some of the districts that produce the fancy red top and limited the amount produced. New varieties in general will be limited. Prices on clover seed, on the contrary are somewhat lower than usual.

The amount of Asparagus plumosus seed used in this vicinity is said by local seedsmen to be increasing each year. Just now is the time for the market to be active in the sale of seeds of this green, and in lots of ten thousand seeds, sold this week for $2.35 per thousand. Northern-grown greenhouse seed is much preferred to southern or western stock, the northern having a higher percentage of germination.

Omaha, Neb.—W. De Vaughn has opened a new seed store on Harney street, near 16th.

I consider HORTICULTURE the best trade paper published.

W. L.

New Jersey.

Kelway & Son

Wholesale Growers to the Trade of

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FOR FLORISTS

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Joseph Breck & Sons Corp.

Seedsmen

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Removal Notice

We beg to announce that on March 1st we moved to our new offices on the 8th floor of the Woolworth Building, Broadway and Barclay St., New York.

Yokohama Nursery Co.

Send for list of

Choice Gladioli

JOHN LEWIS CHILDS

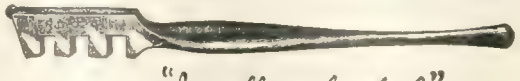
Flowerfield, L. I., N. Y.

CATALOGUES RECEIVED.

Ross Bros. Co., Worcester, Mass.—General 1914 Catalogue and Price List of Vegetable, Grass and Flower Seeds. A lively book of 124 pages which will well fill its place as adviser and friend to the man or woman with a garden. Agricultural implements are also listed.

Racine Nursery Co., Racine, Wis.—Wholesale Catalogue for Spring, 1914. A nice pocket-size list of ornamental material. Good stock for garden purposes and worth buying. Some of these days it will be advertised in HORTICUTURE.

More Red Devil Cutters Used Annually Than All Others Combined



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PERFECT FRUIT IN 30 DAYS

"John Baer" Tomato produces Perfect, Solid, High Crown, Beautiful, Brilliant Red Tomatoes in 30 days. IT IS THE RESULT of Fifteen Generations of Improvement and Selection. ORIGINATOR'S SEED ONLY.



The Earliest Tomato On Earth

Perfect Fruit In 30 Days



"John Baer" Tomato

1st—"John Baer" Tomato produces large, beautiful, solid shipping Tomatoes in 30 days from plants grown in Veneer or Paper bands, with roots undisturbed.

2nd—"John Baer" Tomato produces the most perfect High Crown Tomatoes ever grown.

3rd—"John Baer" Tomato produces an enormous crop of Tomatoes, 50 to 100 fruit to each plant.

4th—Every "John Baer" Tomato ripens evenly, right up to the stem.

5th—No cripples, no scalds, no blight, no cracked, no wrinkled, no one-sided, uneven, scarred fruit. When dead ripe "John Baer" Tomato will not burst.

6th—"John Baer" Tomato has a wonderful glistening bright red color.

7th—"John Baer" Tomato has a mild deliciously sweet flavor.

8th—In shape and form exactly like its photograph.

9th—"John Baer" Tomato is almost seedless, a marvelous Stem Setter, often ten fruit in first cluster, solid and meaty.

10th—"John Baer" Tomato has just enough foliage—will stand plenty of manuring without going to vine. Set plants 2½x3 feet.

11th—"John Baer" Tomato is the most perfect shipping Tomato ever grown—24 fruit exactly fill a six carrier basket.

12th—Each beautiful "John Baer" Tomato weighs about 6½ ounces.

13th—"John Baer" Tomato Seed was saved only by John Baer, the originator, who personally selected and picked every Tomato from which he saved this seed, selecting only the most beautiful perfect fruit of the early Stem Set Clusters.

14th—"John Baer" Tomato is the offspring of two marvelous Tomatoes—One Great Specialist having devoted 10 years in selecting and improving one parent and Another Expert devoted five years in selecting and improving the other parent. The "John Baer" Tomato is therefore the result of Fifteen Generations of Improvement and Selection for earliness, quality, shape, fruit, color and shipping quality.

"John Baer" Tomato

THE EARLIEST TOMATO ON EARTH

Pkt. $1.00. ½ oz. $2.50. 0z. $4.00. ¼ lb. $15.00. Pound $50.00. 33⅓% Discount to the Trade.

1818 **J. Bolgiano & Son** 1914

Almost 100 Years Selling Trustworthy Seeds

Growers of Pedigreed Tomato Seed

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Seedsmen to H. M. The King

Carters New . . . .
Spring Catalogue
"Garden & Lawn"
is Now Ready . .

HOW TO JUDGE NOVELTI

An Unriv

The great advance in Horticulture of the last half century has been c
main features. We have ventured to lay claim to having contributed
with it as it has done increasing attractions to the garden, and additi
up a list in chronological order of the new varieties of flowers of intri
since the year 1857, most of which have been absolutely produced in o
selection.

It is true that some of the varieties which figure in this list are
appearance, but they have done their duty as stepping stones in the d
seded them.

We present this list as our credentials when we ask the public to
that no history on the development of Horticulture would be complete

A 57 Years' List of Flower Seed No

Arranged in

1857 Leptosiphon densiflorus albus
1858 Nasturtium Tom Thumb Scarlet
1859 Nemophila discoidalis vittata
Lupinus hybridus nigrescens
Clarkia integripetala
Nasturtium Tom Thumb Yellow
1860 Clarkia pulchella Tom Thumb
Mimulus tigridoides
Œnothera grandiflora
Zinnia elegans fl. pl.
1861 Œnothera Drummondi nana
1862 Aquilegia caryophilloides
Clintonia pulchella atropurpurea
Lobelia erinus speciosa kermesina
Nemophila insignis marginata
Nycterinia selaginoides, white
Viscaria Dunnetti
1863 Clarkia integripetala alba
" " marginata
Godetia the Bride
Nasturtium Tom Thumb Pearl
1864 Clarkia integripetala fl. pl.
" " pulcherrima
Kaulfussia amelloides atroviolacea
Lupinus Dunnetti atroviolacea superbus
" Albo-coccineus
1865 Chrysanthemum Dunnett's Double White
Nasturtium Tom Thumb Scarlet King
1866 Clarkia integripetala Tom Thumb alba
Nasturtium Tom Thumb King Theodore
Œnothera Drummondi nana alba
Petunia Dunnett's striped and blotched
Waitzia grandiflora
1867 Chrysanthemum Dunnett's Double Golden
1867 Lupinus hybridus atrococcineus
Schizanthus aculatus atropurpureus
" grandiflorus albus
1868 Briza compacta
Clarkia integripetala carnea Tom Thumb
" elegans alba plena
" pulchella marginata fl. pl.
Eschscholtzia crocea striata
" dentata aurantiaca
" sulphurea
Marigold French Dwarf Golden
Nasturtium Tom Thumb coerulea rosea
Nemophila discoidalis nigra
" " argentea
Sphoenogyne speciosa aurea
" sulphurea
Tropaeolum Lille Schmidt, Tom Thumb
" pyramidalis
Viscaria elegans picta
1869 Convolvulus minor unicaulis
Nasturtium Tom Thumb Golden King
Nemophila atomaria fol. variegata
Tagetes patula favoeiflora
1870 Viscaria cardinalis
Kaulfussia amelliodes kermesina
1871 Clarkia integripetala marginata Tom Thumb
Eschscholtzia aurantiaca
Heartsease Beauty of St. Osyth
Marigold African quilled Orange
Nemophila insignis purpurea rubra
" maculata albida
Sweet Pea Black Invincible
Wallflower Golden Bedding Tom Thumb
1872 Nemophila insignis lilacina
1872 Nolana lan
"
1873 Antirrhinu
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1874 Godetia Du
Lobelia Ca
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Schizanthus
Viscaria ca
1876 Dianthus D
" I
Lupinus Ha
Nasturtium
Nycterinia
Sweet Will
1877 Aster Quill
" "
" "
" "
Dianthus C
" E
Eschscholtz
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ed Record

zed by an increasing interest in the production of novelties as one of its rked degree to the development of this phase in Horticulture, bringing sure to those who appreciate them. As evidence of this, we have drawn it and popular favor which at our hands have been raised and introduced rounds either by cross-fertilization, or by an effective process of natural

r cultivated as the general favorites they were when they first made their ent of their race to better selections by which we and others have super-

f novelties by looking at their source, also with the diffident suggestion d not include this interesting chapter.



Seedsmen to H. M. The King

Do not fail to write for a copy, if you have not alseady received one . . . .

ties, Sent Out by James Carter & Co.

hological Order.

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Belle
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1877 Marigold French Butterfly
Sweet Pea Violet Queen
1878 Silene pendula fl. pl. Zulu King
1879 Candytuft Dunnett's Extra Dark Crimson
Clarkia integripetala Mrs. Langtry
Eschscholtzia crocea fl. pl.
Godetia Princess of Wales
Larkspur Moonlight
Marigold French Cloth of Gold
" Dwarf Gold Striped
1880 Silene pendula compacta Snow King
Virginian Stock Crimson King
1881 Eschscholtzia Rose Cardinal
Petunia Carter's Emperor
Primrose Cloth of Gold
Virginian Stock Fairy Queen
1882 Godetia Lady Satin Rose
Heartsease Carter's Fancy
Helichrysum Fireball
Lobelia White Gem
Nasturtium Tom Thumb Empress of India
Petunia Mrs. Dunnett
Primula sinensis Holborn Blue
Tagetes Golden Ring
1883 Godetia reptans Spotted Carpet
Lobelia Prima Donna
Nemophila atomaria atrocoerulea
Sweet Pea Blue Edged
1884 Mimulus Carter's Ruby
Nasturtium Tom Thumb Ladybird
Sweet Pea Adonis
Marigold African Miniature Orange
Nasturtium Tom Thumb Chameleon
1886 Rhodanthe Mangleis Alba
1886 Silene pendula compacta Double Pink
1887 Mimulus Carter's Queen's Prize
Nemophila atomaria Holborn Blue Bell
1888 Saponaria Scarlet Queen
1890 Heartsease Peacock
Petunia Clematis Flowered Holborn Blue
1891 Antirrhinum Victoria
Godetia White Pearl
Wallflower Miss Primrose Carter
1892 Petunia Carter's Empress
Phlox Drummondi gr. nana compacta Sunrise
1894 Lobelia formosa
" White Lady
Sweet William Holborn Glory
1896 Antirrhinum Star varieties
Marigold French Electric Light
Silene pendula compacta Empress of India
1897 Poppy the Picotee
Convolvulus Minor "Bouquet"
Abronia Carter's Carmine
1898 Lobelia Romosa Heavenly Blue
Aster Purple Bijou
1899 Marigold Dwarf French Silver King
Clarkia minima Alba
" " Lilac
1900 Delphinium Blue Butterfly
1904 Primula King Edward
1906 Eschscholtzia Carmine King
1907 Nemesia Orange Prince
Wallflower Spanish Queen
1909 Eschscholtzia The Mikado
1911 " New Hybrids
1913 " The Rajah
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Plumosus Nanus. Greenhouse grown, 50c. per 100 seeds; $4.00 per 1000 seeds.
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ASTER.
Branching. Separate colors, 80c. per oz.; mixed, 65c. per oz.
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Queen of the Market. Separate colors, 80c. per oz.; mixed, 75c. per oz.
BEGONIA.
Erfordii. 50c. per pkt.; 1-16 oz., $1.50.
Semperflorens Rose. ¼ oz., 50c.
Semperflorens Vernon. ¼ oz., $1.00.
Gracilis Luminosa. 25c. per pkt.
CANDYTUFT.
Empress. 15c. per oz.
Giant Hyacinth Flowered. White, 25c. per oz.
CENTAUREA.
Imperialis. White, 50c. per oz.
Margaritae. 60c. per oz.
CINERARIA.
Maritima. 15c. per oz.
Candidissima. 20c. per oz.
MIGNONETTE.
Allen's Defiance. 30c. per oz.
Grandiflora. 10c. per oz.
PANSIES.
Thorburn's Superb Mixture. $4.00 per oz
PETUNIA.
Howard's Star. ¼ oz., 50c.
SALVIA.
Splendens. $1.25 per oz.
Bonfire. $2.00 per oz.
Zurich. $4.00 per oz.
Silver Spot. $1.50 per oz.
VERBENAS.
Separate Colors. 50c. per oz.
Hybrid Mixed. 40c. per oz.
Hybrid Mammoth Mixed. 80c. per oz.
VINCA.
Rosea. 45c. per oz.
Rosea Alba. 50c. per oz.
Alba Pura. 50c. per oz.

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BOSTON'S NEW PARK CHIEF.

As mentioned in our notes last week on the shake-up in Boston's Park Department, John H. Dillon succeeds D. Harry Sullivan as chairman of the Park Board. Mr. Dillon's appointment by the Mayor has now been duly ratified by the Civil Service Board and he assumed his new duties on March 11.

John H. Dillon has been brought up from boyhood in horticultural work, and those who have been accustomed to clamor for the appointment on park boards of men with a practical gardeners' training will no doubt, see in



JOHN H. DILLON

this unexpected development, the fruition of their hopes. Mr. Dillon got his first lessons from his father who was gardener for Hon. Marshall P. Wilder. When but a lad he had employment in a flower store in Boston and later on with various prominent growers. He has been for many years employed in the Department of Public Grounds of Boston, latterly as foreman in charge of the Public Garden. He has a wide circle of acquaintances in the profession, all of whom will wish to see him succeed in the new and trying responsibilities now given him.

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6 to 8 Feet
$7.00 per 1000

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MY GIANT
Winter Orchid Sweet Pea

are grown by over 3000 growers this winter. If you have not seen them in flower, ask your nearest grower and see for yourself. Nothing will pay better in the next ten years than these popular flowers. New seed will be ready in August. To plant one house 20x100 will not cost you over $15.00.

Write for information to the ORIGINATOR,

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Sweet Pea Ranch LOMPOC, CALIF.

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BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

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Cold Storage Valley

Of finest quality for Early and Late forcing in cases of 1000, 500 and 250 pips at $16 per 1000. All expenses paid.

Corp. of CHAS. F. MEYER
99 Warren Street, NEW YORK

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

FARQUHAR'S FLOWER SEEDS

FOR THE FLORIST

Write for our Wholesale Catalogue

R. & J. FARQUHAR & CO., BOSTON MASS.

SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

BURNETT BROS.

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Flowers early in August and continues until frost. Bright Rose, Purple, Lavender, Shell Pink, Pure White, Finest Mixed

Trade Pkt. 35c.; Oz. $2.00

Sweet Peas, Cyclamen, Petunia, Verbena, Lily of the Valley from our own Cold Storage Plant. Our trade list mailed on application

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LEONARD SEED CO.

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ONION SETS

Write for Prices

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WHOLESALE ONLY

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Write us for price on both globe and flat varieties. We are also quoting Onion Sets.

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"QUALITY"

SWEET PEA SEED

As fine Sweet Peas as grow, and true to name at prices which will bear investigation. Prices for immediate delivery.

SPENCER	Pkt.	Oz.
Florence Nightingale	$ .10	$ .30
Flora Norton	.15	.30
Asta Ohn	.10	.30
Pearl Grey	.10	.40
Apple Blossom	.10	.20
America	.10	.20
Countess	.10	.20
Blanche Ferry	.10	.25
Duplex Pink	.10	.30
Duplex Crimson	.15	.35
Dainty	.10	.20
White	.15	.35
Othello	.10	.20
Rainbow	.10	.35
Gaiety	.10	.25
King Edward VII	.10	.20
Primrose	.10	.30
Martha Washington	.10	.20
Queen Alexandra	.10	.20
Sterling Stent	.10	.35
Fancy Mixed	.10	.20

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43 Atlantic Street, Stamford, Conn.

Jersey Grown Callas

1 1-2 inches in diameter and up.

To clean out $50.00 per 1000

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Artistic Designs . . .
High Grade Cut Blooms

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GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

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Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
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We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

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Kansas City, Mo.
913 Grand Ave.
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All Orders Given Prompt and Careful Attention

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J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 218Q
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

Cleveland, O.—The Taylor Flower Shop, 630 Euclid avenue, has been closed up.

Kansas City, Mo.—Sam Murray's show window on Grand avenue is a dream, with Acacia pubescens and lilacs. Mr. Murray is featuring the acacia as a specialty and has sent out cards to that effect.

Boston—Sidney Hoffman narrowly escaped death or serious injury in an auto accident, his machine being run into by another auto recklessly driven by parties who made their escape without their identity being ascertained. Both autos were wrecked.

STEAMER DEPARTURES

Allan.
Scandinavian, B'st'n-Gl'sgow..Mar. 19

American.
St. Louis, N.-Y.-S'hampton..Mar. 20

Atlantic Transport.
Minneapolis, N. Y.-London..Mar. 21

Cunard.
Caronia, N. Y.-Mediterran'n..Mar. 17
Lusitania, N. Y.-Liverpool..Mar. 18
Campania, N. Y.-Liverpool...Mar. 25

French.
La Lorraine, N. Y. Havre....Mar. 18

Hamburg-American.
Rhaetia, Boston-Hamburg...Mar. 18
Pretoria, N. Y.-Hamburg....Mar. 19
Imperator, N. Y.-Hamburg..Mar. 21

Holland-America
Potsdam, N. Y.-Rotterdam..Mar. 24

Leyland.
Winifredian, Boston-Liv'rp'l.Mar. 21

North German Lloyd.
K. W. der Gr., N. Y.-B'm'n.Mar. 17
Bremen, N. Y.-Bremen.....Mar. 19
Pr. Fr Wilh'm, N. Y. Br'm'n.Mar. 21
Kg. Albert, N. Y.-Mediter'n.Mar. 28

Red Star.
Finland, N. Y.-Antwerp.... Mar. 18
Zeeland, N. Y.-Antwerp.... Mar. 21

White Star.
Oceanic, N. Y.-S'hampton. Mar. 18
Cedric, N. Y.-Liverpool.....Mar. 26
Phila., N. Y.-Southampton ..Mar. 27

NEW FLOWER STORES.

Bridgeport, Conn.—Philip Lunden.

Chicago—Miss Douglass, 3954 W. Harrison street.

Columbus, Ind.—Chas. S. Barnabee, 428 Fifth street.

Syracuse, N. Y.—Pierce-Christian Co., Echel Theatre Building.

Springfield, Mass.—The Flower Shop, 180 Worthington street.

Bridgeton, N. J.—Adolph Hespelt, 44 North Samuel street, flowers, seeds and poultry supplies.

NEWS NOTES.

Southampton, N. Y.—The Elwood establishment on Hill street will be conducted by Moore Bros. as florists.

Carl P. Berger, architect, has invited bids on plans and specifications for a store, greenhouse offices and apartments for the Primrose Flower Shop, Ardmore, Pa., to consist of three stories and a basement, of brick and frame, containing two suites of offices and three suites of apartments.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
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"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

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Deliver orders from any part of the country to
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FLOWER DELIVERIES FOR ALBANY AND VICINITY
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FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
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MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

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Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

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EYRES
Flowers or Design Work
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96 Yonge St., - - TORONTO, ONT.

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO
FLORISTS
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All Transfer Orders Filled
HALL & ROBINSON
825 ST. CATHERINE ST.

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—Fred A. Danker, 40 Maiden Lane.
Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

BUFFALO NOTES.

Edw. Slattery, well known to the trade throughout the country, has severed his connection with the firm of Slattery & Bryer. A. Kolawski, formerly of Lenox, has taken a position with above firm.

The Lenox Flower Shop, Buffalo, has changed hands and Edw. Altman, former proprietor, has retired from the florist business. Felix Albert, formerly of Rochester and well known to the trade, has taken over the management of the Lenox store.

Sad news came to the Buffalo florists in the sudden death of Mrs. Wm. Ehman, of Corfu, N. Y. Mr. Ehman is well known to the Buffalo trade in being a shipper to the wholesale market. The heartfelt sympathy goes out to the bereaved husband and children in this hour of their sorrow. Many Buffalo florists attended the funeral in Corfu on Friday last.

E. C. B.

ORDERS FOR
NEW YORK
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22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
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Flower and Plant Deliveries.
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CLEVELAND
Euclid Avenue

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Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

CHICAGO NOTES

Quite a number from Chicago are attending the Illinois and Indiana State Convention at Danville, Ill.

Miss Douglass, formerly with Schiller, florist, will open a retail store about March 15th, at 3954 W. Harrison street.

Allie Zech has received word from his sister, who is in a hospital in Milwaukee, that she is much better and will return home in another week.

The Easter lily plant is the subject of much anxious thought just now. Various and conflicting reports from growers are heard, but they sift down to the fact that the chances are not especially good for a large supply of plants of just the right size.

Poehlmann Bros. are well represented this week at the Danville, Ill., convention. C. J. Anderson, in charge of the plant range, has a large exhibit of decorative and blooming plants and accompanied them to the joint convention, while T. Waters, who presides over the department of florists' supplies, left with his exhibit of baskets, ribbons, chiffons, etc.

The Chicago papers are giving considerable space to the arrest of C. M. Dickinson, in Stony Butte, Montana. It was well known to the trade here that Mr. Dickinson's settlement with his creditors would not cover all his financial difficulties which were pending when he left Chicago a year ago. Clifford Pruner who was traveling salesman for the firm of E. H. Hunt, of which C. M. Dickinson was manager has begun the suit and Mr. Dickinson is expected in Chicago at any hour. There are possibilities of other suits following.

Wm. Allen, now in charge of the Schiller conservatories, will become private gardener for J. E. Tilt, 742 Brompton avenue, Chicago, assuming his new duties March 17. This is a comparatively new place and Mr. Tilt, who will make it one of the finest in the city, has secured a most capable young man, rapidly rising in his profession. Wm. Allen is a born lover of his work, his father being a private gardener of high repute in England, and during the eight years spent in this country Mr. Allen has "made good," advancing rapidly from one position to another.

Work of saving the Chicago trees is again under way, and spraying for the destruction of the cotton scale that attacks the soft maples, the walnut scale, the elm scale, the oyster shell bark and the scurvy scale, and probably others, is now being done on the mild days. J. E. Prost, whose official title is Superintendent of Small Parks and City Forester for the Special Parks Commission, has his men out after the enemies of the trees. They use a Triplex power spray, run by a gasoline engine. In his estimation there are a very small per cent. of perfect trees in Chicago and among the legion of enemies there are none worse than the tussock moth.

The city of Chicago has of its own and under the care of its Special Parks Commission 100 acres of nurseries, now growing trees, shrubs and perennials for its public places.

PHILADELPHIA NOTES.

Berger Bros., have sold their lease on North 13th street and will move on the 20th inst. to 1225 Race street, a fine big store, well lighted.

F. X. Millman has opened a retail flower store at State and Montgomery, Trenton, N. J. Mr. Millman was recently with Ribsam and previously located at Cumberland, Md.

Mr. Pettitt, Advertising Manager at Michells, is busy getting up a new perennial catalog. The Andalusia collection is very large and select and has to be dignified with a "special."

"The Food Value of Fresh Vegetables," is the title of a sixteen-page pamphlet by Dr. Henry Leffmann. A timely story well-told. Burpee has a few free copies, maybe you could get one if you ask nicely.

"The Fra" for March has a fine picture of W. Atlee Burpee for its front piece, and an excellent article on the history of gardening by Elbert Hubbard. Very interesting. Every reader of HORTICULTURE should buy this number.

Roland H. Patch, an instructor in the New York State College of Agriculture, has been granted a three months' leave of absence and has taken up practice work in floriculture at Dreer's, Riverton. Professor Edward A. White of the Department of Floriculture at Cornell, asks that distinguished consideration be accorded Mr. Patch by local members of the craft on whom he may call.

Thomas A. Hobson & Co., is the title of a new firm in the landscaping business located at Radnor, Pa. Mr. Hobson is a son of the well known grower and exhibitor of crotons, John Hobson gardener for Edward A. Schmidt of Radnor, which reminds us to mention that Mr. Hobson, senior, has been having a hard time of it this winter. His many friends will regret to hear of the death of his daughter and of the very serious illness of himself and wife. We extend our sincere sympathy.

Two trolleys on the Allentown, Phila., line were stalled during the blizzard Sunday and Monday at Center square. Forty poor unfortunates had to be fed and housed by the Cumming family whose home was fortunately nearby. The Marine hotel is not so rare but we don't so often hear of the "Maroon Hotel," which one guest facetiously named the Cumming homestead. Some damage was done by the gales to the Cumming greenhouses. About fourteen boxes of glass were needed to make repairs.

The North Wales mammoth structure suffered more damage in the second blizzard. The other side went down this time. Bad wreck.

BUSINESS TROUBLES.

Cincinnati, O.—Wm. J. Niehaus made an assignment on February 19.

Pittsburgh, Pa.—A petition in insolvency has been filed against A. T. Lorch & Co. and S. W. Church has been appointed receiver.

Yakima, Wash.—J. D. Graham, is mourning the sudden departure of Erbe & Wetzel, the two young men who recently bought out his floral establishment on North Second street. The store is closed and the young men have left the city. Mr. Graham is the principal creditor of the company, being still about $200 behind on the deal. The young men came from Seattle and have been in business here since the middle of December. They purchased stock from Seattle and California and supplied their trade. They owe rent to H. Cahalan and have other unpaid bills in the city.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

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by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns

Are Thoroughly Covered by

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STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

CLEVELAND

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5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

SEND ALBANY ORDERS TO

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RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

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QUALITY SCRIPT LETTERS

Our Script Letters Are Sold As Low As Right Quality Letters Can Be Sold. We Cannot Meet Low Price Competition With Our Standard Goods. The Letters We Offer Are Well Finished, Uniform In Color and First Class Every Way. They Give Tone To Any Work Where They Are Used. Send for a Sample of Our Goods and of the Cheap Stuff Offered In Competition and Compare Them. That's All. We Buy No Job Lots.

IN ALL FLORISTS' SUPPLIES

we hold to high standard. When there is anything new worth having we sell it. Special for this week:—St. Patrick's Day Hats, Pipes and Other Conceits for sending out with March 17th orders.

H. BAYERSDORFER & CO., PHILADELPHIA, PA.
The Florist Supply House of America

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches high,	$2.50	per doz.	4	24	inches high,	$5.00	per doz.
2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

Obituary

A. C. Canfield.

Arthur C. Canfield, for many years a leading flower grower of Springfield, Ill., died on February 20, of heart disease.

William M. Carr.

Wm. M. Carr, a well-known nurseryman of western Massachusetts, died in Springfield, Mass., on March 3, aged 83 years. He was noted as a skilful budder and an expert in forestry work.

S. B. Beale.

Samuel B. Beale, traveling representative for L. L. May & Co., of St. Paul, Minn., died suddenly on February 17, while visiting a customer in St. Paul. He was widely known and as widely beloved and the news of his death will be received with profound sorrow by a large circle of friends in the trade.

J. J. Comont.

We learn of the death, at the age of 71 years, of James J. Comont, representative of James Carter, Dunnett & Beale, which took place on February 13. Mr. Comont was many years travelling for this well-known firm, making an annual trip to America where he was widely known and universally liked among the seed trade.

George W. Vanderbilt.

All the world knows, through the daily press, of the death of this widely known philanthropist and patron of horticulture. We merely wish to record our realization of the irreparable loss sustained by those industries which HORTICULTURE strives to serve, in the death of the owner of Biltmore. He was a man of retiring disposition, rural in his tastes and found his greatest delight in the garden and the wilderness, where the greater part of his time was spent.

Paul Volquardsen.

Paul Volquardsen, a well known and highly respected gardener of Newport, R. I., died at his home on March 9, following an illness of about eight months. Mr. Volquardsen was about 55 years of age, a native of Germany, and came to this country when a young man. Previous to going to Newport, he was for several years gardener to Mr. J. Arthur Beebe at Falmouth, Mass., and the past sixteen years was in charge of the Mrs. W. G. Weld place, where he died. He was a skilful gardener; a frequent exhibitor at the shows of the Newport Horticultural Society, and his exhibits of gloxinia and tuberous begonia plants will long be remembered for their superior quality. Besides a widow, he leaves a son and daughter, who are both grown up. J. R.

SPRING SHOW IN BOSTON.

As we go to press the Annual Spring Show of the Massachusetts Horticultural Society has just opened at Horticultural Hall, Boston and will continue until Sunday evening, March 15. Always a gorgeous spectacle and dazzling riot of bright color, this year's exhibition is even more brilliant and spectacular than ever. The local growers, commercial and private have put up a superb demonstration of their abilities in plant and flower culture, filling all the halls to repletion. Full account next week.

PERSONAL.

A. Schmidt, Lake Geneva, Wis., is on a vacation trip in California.

Charles Reardon, formerly of Hinsdale, Ill., has taken the position of superintendent for E. C. Crosette at Davenport, Ia.

John Noyes, formerly of Boston, and Amherst, Mass., has been appointed horticulturist in the Missouri Botanical Garden.

Isadore Jacobs, who conducts a flower store at 18 North King street, Camden, N. J., slipped and fell on the icy pavement near his store Feb. 25, and fractured three ribs.

Arthur E. Thatcher of Mt. Desert Nurseries, Bar Harbor, Me., has accepted an invitation to serve as a judge in the Flower Show at Grand Central Palace, New York.

John Westcott of Philadelphia who has been luxuriating at Pine Island, together with John Walker, of Youngstown and Adam Graham of Cleveland, Ohio, writes that he will arrive in New York on the steamer due March 17-18.

George Waldbart of St. Louis, Mo., has been confined to his bed the past ten days with sickness. Mr. Waldbart has been on the sick list, more or less, since the first of the year. From last reports he was somewhat improved.

Cincinnati—Mr. and Mrs. P. J Olinger are entertaining Mrs. Olinger's mother and sister, Mrs. Weiland and Miss Didier of Evanston, Ill. J. T. Conger has been very ill at home with Grippe. The roof of Wm. Rutenschwer's home burned a few days ago.

KOMADA BROS.
Manufacturers of all Kinds of
WIRE DESIGNS and FLORISTS SUPPLIES
1008 Vine St., PHILADELPHIA, PA.

25 Years' Experience
Making Flower Selling Refrigerators for Stores and Greenhouses. Perfect Refrigeration Ice Economy. Ask for Catalog X3.
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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI March 6			CHICAGO March 9			BUFFALO March 9			PITTSBURG February 23		
Am. Beauty, Special	35.00	to	40.00	40.00	to	50.00	40.00	to	50.00	40.00	to	50.00
" " Fancy and Extra	25.00	to	30.00	30.00	to	40.00	30.00	to	40.00	25.00	to	35.00
" " No. 1	20.00	to	25.00	6.00	to	15.00	15.00	to	20.00	15.00	to	[illegible]
Killarney, Extra	10.00	to	12.00	6.00	to	10.00	10.00	to	12.00	8.00	to	12.00
" Ordinary	6.00	to	10.00	2.00	to	5.00	4.00	to	6.00	4.00	to	6.00
Richmond, Hillingdon, Extra	10.00	to	15.00	6.00	to	10.00	6.00	to	10.00	10.00	to	12.00
" " Ordinary	6.00	to	8.00	2.00	to	5.00	4.00	to	6.00	4.00	to	8.00
Maryland,,Ward,Taft,Sunburst, Ex.	8.00	to	10.00	8.00	to	12.00	10.00	to	15.00	8.00	to	12.00
" " " " Ordinary	6.00	to	8.00	4.00	to	6.00	6.00	to	8.00	4.00	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	. . .	to	.....	.....	to	.....
Carnations, Fancy	3.00	to	4.00	2.00	to	3.00	2.50	to	3.00	.....	to	4.00
" Ordinary	2.00	to	3.00	1.00	to	2.00	1.50	to	2.00	2.00	to	3.00
Cattleyas	35.00	to	50.00	40.00	to	50.00	35.00	to	40.00	35.00	to	45.00
Lilies, Longiflorum	10.00	to	12.50	10.00	to	12.00	10.00	to	12.00	.....	to	15.00
Callas	10.00	to	12.00	8.00	to	10.00	10.00	to	12.00	.....	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites, Roman Hyacinths	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Freesias	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00	.....	to	4.00
Daffodils	3.00	to	4.00	2.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Tulips	3.00	to	4.00	2.00	to	4.00	2.00	to	3.00	3.00	to	5.00
Violets	.50	to	.75	.40	to	.75	50	to	.60	.35	to	.75
Mignonette	5.00	to	6.00	4.00	to	8.00	2.00	to	5.00	4.00	to	6.00
Daises	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50	.....	to	3.00
Sweet Peas	.75	to	1.50	.75	to	1.50	.50	to	1.00	.50	to	1.25
Gardenias	25.00	to	30.00	25.00	to	30.00	15.00	to	25.00	.....	to	.....
Adiantum	1.00	to	1.50	.75	to	1.00	1.00	to	1.25	.....	to	1.25
Smilax	12.50	to	15.00	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	40.00	to	50.00	35.00	to	50.00	40.00	to	60.00	25.00	to	50.00
" " & Spren. (100 bchs.)	25.00	to	50.00	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00

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Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly mention HORTICULTURE.

Flower Market Reports

BOSTON Trade seems a wee bit brighter as we go to press. Carnations have gone up a point and roses also show a slight improvement in demand. Violets are in great abundance and are sold by the thousand as a rule, few caring to bother with a hundred or two. Sweet peas are also very abundant but there are many of low grade. Spencers are not so much in evidence as they were. Orchids continue to drag. The utter stagnation on cattleyas seems unaccountable. Lily of the valley and, in fact, all bulbous material are received in enormous quantities. There are some very poor tulips and even the extra good ones find difficulty in getting moved. Daffodils are also badly congested. Lilium speciosum is offered for the first time this season by Welch Bros.

BUFFALO Market conditions have changed but little during the past week. Stock is plentiful and the outlet blocked. It was very quiet the early part of last week, but the ending was much more satisfactory than looked for. There was plenty of everything and prices were at a low ebb. Roses and carnation crops are on, as well as lilies and other stock, and the days have been such that a bargain sign during the week amongst the merchants was not noticeable. Social affairs have practically ceased. Violets have moved slowly, even at the very low prices asked. Lilies had no demand until Saturday, when good sales were reported.

CHICAGO Shipping trade seems to be rather ahead of local trade. The falling off of a large proportion of the run of business, which had kept up steadily from the holidays till Lent began, shows no signs of diminishing so far as local demand is concerned. Counters and ice boxes show an amount of stock that would have delighted salesmen a few weeks ago and the quality in most lines is excellent. American Beauties are reversing earlier conditions, as they near the end of a crop, for now the shortage is on the long-stemmed flowers and there are plenty of shorts. Roses are in good supply and sales hardly brisk enough to use them to advantage. Violets are a proposition now. Hudson River doubles are arriving in various conditions, mostly bad, and there is a big supply of locals, both double and single. Sales are confined almost exclusively this week to singles. Some very fine carnations are seen in the market, but there are quantities of a poorer quality also. Bulbous stock contains much that is poor and much also that is excellent. Some fine sprays of orange flowers from Florida were seen at Zech & Mann's, Tuesday.

CINCINNATI The general supply has increased to such an extent that the market is easy in every line except American Beauties. The demand for stock, while fair, is not quite all it might be and this fact coupled with the large supply gives the buyers a chance to get their blooms at low prices. Roses have shown very large increases in the receipts. The carnation supply is large but most all good ones have been able to find a market. With heavy receipts the sweet pea prices have gradually fallen, until now they have reached the lowest point at which they have sold this season. A good many of the smaller blooms find no market at all. About the only persons from whom there is an active demand for violets are the street fakirs. Very many fine single blooms are offered. Lily of the valley; orchids and primroses all sell slowly. The Giganteum lily supply is decreased considerably. Callas are in good supply. Some very fine bulbous stock is offered, but the sales are not overly large.

NEW YORK There is little of interest or value to anyone that can be said about the flower market at the present time. Every flower known to the spring season is in evidence in quantity—all the well known roses and some not so well known, all the carnations famous or obscure, tulips and daffodils in generous assortment, violets, cattleyas, lilies and lilacs — all these and more, but they are far in excess of the demand, which is very light, and naturally interest lags when any stock accumulates and becomes unsalable. There are now some forty or more wholesale flower concerns, but no more goods are sold than would be if there were only one-fourth as many. It makes a lot of people among which to divide the limited gross profits and, of course, the situation is unsatisfactory to all. Next year we shall probably have fifty wholesalers if present rate of multiplication continues. Eventually one for each grower? Each with the most spacious and well equipped store, of course.

PHILADELPHIA Medium to bad is the verdict for last week. First, they couldn't get the flowers in, and then they couldn't get them out. It was some blizzard all right. Communication was pretty well blocked up except to points south. When stocks did come they came with a rush and

(Continued on page



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NEW YORK
117 West 28th Street

BALTIMORE
Franklin and St. Paul Streets

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON March 12			ST. LOUIS March 9			PHILA. March 2		
Roses									
Am. Beauty, Special	50.00	to	75.00	30.00	to	40.00	60.00	to	65.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	40.00	to	50.00
" " No. 1	10.00	to	15.00	8.00	to	10.00	5.00	to	20.00
Killarney, Extra	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	2.00	to	4.00	3.00	to	4.00	4.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	10.00	6.00	to	8.00	12.00	to	15.00
" " Ordinary	2.00	to	4.00	3.00	to	4.00	6.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	10.00	6.00	to	8.00	8.00	to	10.00
" " " " Ordinary	2.00	to	4.00	3.00	to	4.00	4.00	to	6.00
Russell, Shawyer	10.00	to	15.00	.....	to	.....	10.00	to	20.00
Carnations, Fancy	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00
" Ordinary	1.50	to	2.00	1.00	to	2.00	.....	to	2.00
Cattleyas	20.00	to	35.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	10.00	to	20.00
Callas	.....	to	10.00	10.00	to	12.50	10.00	to	20.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	3.00	to	4.00
Paper Whites, Roman Hyacinths	1.00	to	1.50	2.00	to	3.00	.....	to	3.00
Freesias	1.00	to	2.00	2.00	to	3.00	2.00	to	4.00
Daffodils	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
Tulips	1.00	to	1.50	2.00	to	3.00	3.00	to	5.00
Violets	.15	to	.25	.20	to	.35	.50	to	1.00
Mignonette	2.00	to	6.00	4.00	to	5.00	3.00	to	6.00
Daisies	1.00	to	2.00	.....	to	.....	1.50	to	3.00
Sweet Peas	.40	to	1.00	.25	to	1.00	.50	to	1.00
Gardenias	15.00	to	25.00	.....	to	.....	10.00	to	20.00
Adiantum	.75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	17.00	to	25.00
Asparagus Plumosus, Strings (100)	25.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Sprgs. (100 Bchs.)	10.00	to	50.00	15.00	to	25.00	.....	to	50.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Mar. 7 1914	First Half of Week beginning Mar. 9 1914
American Beauty, Special	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	20.00 to 40.00
" " No. 1	5.00 to 10.00	8.00 to 20.00
Killarney, Extra	6.00 to 10.00	4.00 to 8.00
" Ordinary	2.00 to 6.00	1.00 to 4.00
Richmond, Hillingdon, Extra	5.00 to 10.00	4.00 to 8.00
" " Ordinary	2.00 to 5.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	8.00 to 10.00	4.00 to 10.00
" " " Ordinary	3.00 to 8.00	2.00 to 4.00
Russell, Shawyer	8.00 to 12.00	2.00 to 8.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 4.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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and all Seasonable Varieties of Cut Flowers

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Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 385)

swamped the market. Everything too plentiful all along the line. The number of "dull sickening thuds" in quotations too painful to talk about. Let us forget it.

ST. LOUIS

Trade and the market have not gone well together the past week, trade being slow and the supply large and prices are at low ebb. Plenty of good roses are coming in now as these have been off crop for some time. Violets are coming in great quantities and sold as low as $1.50 per 1,000. Sweet peas, too, are cheap and most plentiful; all fancy goods hold up well in price but the common varieties are very low. Bulb stock plenty and selling cheap. The leading retailers say that trade since Lent has been slow. Funeral work alone has kept them alive the last week.

WASHINGTON

The local florists last week suffered considerable additional competition at the hands of the street vendors who offered large quantities of violets, sweet peas and Richmond roses at very low prices while the store men were hunting high and low for the latter, although there was a vast difference between the quality of the two types. A good sized bunch of storage violets could be had at as low as fifteen cents while the dealers were paying $7.50 per thousand, but were getting good quality. The same could be said of sweet peas. Carnations dropped down again to $2 and $3 per hundred. Gardenias were far more plentiful than they have been and many were sent to other cities. The only real shortage was on orchids of which there were not enough good ones to fill the demand. Red roses have been quite scarce during the week and were subject to quite a heavy call. Lilacs and other spring flowers met with but a fair sale.

CLUB AND SOCIETY NOTES.

The St. Louis County Growers' Association held its regular monthly meeting on Wednesday night, March 4. There was a good attendance of members.

The St. Louis Retail Florists' Association will meet Monday night, March 16. They have changed their meeting place from Beers' Hotel to The Washington Hotel, where the next meeting takes place.

The first spring exhibition of the Worcester County (Mass.) Horticultural Society was held on the afternoon and evening of March 5, at Horticultural Hall. At 2.30 o'clock in the library room, a special lecture was given on "Insect Pests and Insecticides" by E. D. Baker of Cornell University.

At Cincinnati Florists' Society meeting last Monday evening, R. Witterstaetter, chairman of the taxation committee, gave a report of the work of that committee in getting funds to aid in fighting the recent tax decision in this state. S. S. Skidelsky of Philadelphia was present and gave a little talk. J. A. Peterson and Roger Peterson showed some colored plates of some of their new begonias.

The regular monthly meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., on Saturday evening, March 7, and was the largest for some time. A letter was read from J. Everitt of Glen Cove, N. Y., offering $5 for the largest chrysanthemum bloom at the fall show. Thos. Proctor exhibited a beautiful pink seedling carnation, which was awarded a certificate of merit and received a certificate of cultural commendation each for a vase of White Wonder and Mrs. C. W. Ward. S. H. Reed of Brookfield, gave a very interesting lecture on ensilage. He dealt with the best crops to grow for ensilage and the best kinds of silo pits, etc.

JOHN MAIR, Ass't. Sec'y.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 7 1914	First Half of Week beginning Mar. 9 1914
Cattleyas	15.00 to 50.00	15.00 to 50.00
Lilies, Longiflorum	8.00 to 12.00	6.00 to 8.00
Callas	8.00 to 12.00	6.00 to 8.00
Lily of the Valley	1.00 to 2.00	2.00 to 3.00
Paper Whites, Roman Hyacinths	1.00 to 2.00	1.00 to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Violets	.25 to .40	.15 to .35
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	.50 to 1.00	.50 to 1.00
Sweet Peas (per 100 bunches)	2.00 to 8.00	2.00 to 8.00
Gardenias	6.00 to 25.00	10.00 to 30.00
Lilacs (per bunch)	.. ... to 1.50	..... to 1.50
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	20.00 to 40.00
" " & Spren (100 bunches)	10.00 to 20.00	20.00 to 40.00

BOSTON'S NEW FLOWER MART.

The Boston Co-operative Growers' Market moved into its spacious new quarters in Winthrop Square on March 9, and thus another great wholesale mart has been added to Boston's rapidly growing commercial flower business. Simultaneously with this removal, the Boston Rose Company, which handles the Montgomery Bros.' product moved from Somerset street to quarters in the Boston Flower Exchange. This leaves practically only two wholesale places in the old-time neighborhood—Waban Conservatories and W. H. Elliott—and it is probable that they, too, will on the expiration of their leases locate in the new centre of activity.

VISITORS' REGISTER.

Boston—Louis J. Reuter, Westerly, R. I.; William Currie, Milwaukee, Wis.

St. Louis, Mo.: Guy Reyburn, of A. Henderson Co., Chicago; Bert Chadwick, New York City; Frank Farney, representing Rice Co., Phila.; M. Le Vine, New York.

Philadelphia: R. T. Brown, Cottage Gardens Co., Queens, N. Y.; Alexander Cumming, Center Square, Pa..; Edward H. Flood, Atco, N. J.; Stephen Mortensen, Southampton, Pa.; E. G. Hill, Richmond, Indiana.

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New York City—The Yokohama Nursery Company have removed from 51 Barclay street to the Woolworth Building where they have taken offices on the eighth floor, rooms 856 and 858. They will be pleased to have their friends call.

Last Friday a frightened deer smashed its way into the Forest Hill greenhouse of Philip A. Arzberger at Pleasantville, N. Y., and smashed out again, breaking thirty big panes of glass. Game Warden Sutton, of Mount Kisco, found its carcass in the possession of a gang of laborers. It had died from its cuts.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT
R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS
Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE
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Asparagus Plumosus Nanus Seedlings.
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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

AUCUBA
Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Bay Trees and Box Trees, all sizes and prices. List on application.
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Tuberous Rooted Begonias.

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J. T. Lovett, Little Silver, N. J.
The Joy Blackberry.

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Hitchings & Co., New York City.
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Lord & Burnham Co., New York City.
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Bouvardia Stock Plants—Single Pink and Red, $5.00 per 100. Orders taken for Rooted Cuttings, ready May and June, $20.00 per 1000. Cash with order. JOHN HOLT, North Wales, Pa.

BOXES—CUT FLOWER FOLDING
Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

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Boddington's Quality Cannas.
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Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.

10S of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

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Carnation Mrs. B. P. Cheney.
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CARNATIONS
Unrooted cuttings, White and Light Pink Enchantress, Harlowarden, fine healthy stock, 75 cts. per 100; $6.00 per 1000. Sample by mail. W. A. FINGER, Hicksville, N. Y.

CARNATION STAPLE
Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

COCOANUT FIBRE SOIL
20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS
200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

Thomas Roland, Nahant, Mass.
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DAHLIAS
Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA
John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—Clean, healthy stock, fully matured, novelties and standard varieties, true to name and at reasonable prices. Also Gladioli, field-grown Hollyhocks, Herbaceous plants, etc. Send business card for catalogue. W. W. WILMORE, Box 382, Denver, Colo.

Divisions of field clumps, assortment of 10 of the best commercial kinds for cutting, $2.50 per 100; $20.00 per 1000. In separate colors, any color. $2.00 per 100; $18.00 per 1000. Assortment of 25 kinds good commercial sorts, for counter trade, small amounts of each kind all labelled true to name, $2.50 per 100; $22.00 per 1000. Surplus stock of Sylvia, Mrs. Hartong, H. Lyndhurst, Sono, G. Douzon, B. Schroeder at $1.25 per 100; $10.00 per 1000. Descriptive trade list of Dahlias on application.
W. A. FINGER, Hicksville, L. I., N. Y.

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Sheepshead Sheep Manure

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GERANIUM ROOTED CUTTINGS—S. A. Nutt, $1.50 per 100; 2¼ inch, $2.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

GERANIUMS—Rooted Cuttings, Ricard and Poitevine, $15.00 per 1000; also same in 2¼-in. pots, $2.50 per 100 or $22.00 per 1000. MICHAEL WEINREITHER, Warren Point, N. J.

GLADIOLUS
John Lewis Childs, Flowerfield, N. Y.
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Independence	bulblets,	$2.25 pk.,	$7.00 bu.
"	½ inch bulbs,	$4.00 per	1000
"	¾ " "	5.00 "	"
"	1½ " "	8.00 "	"
Klondyke,	1½ " "	12.00 "	"
Mrs. King,	½ " "	6.00 "	"
Groffs mix., reds,	½ inch.	4.00 "	"
"	¾ "	5.00 "	"
"	1 "	6.00 "	"
"	1½ "	8.00 "	"
"	bulblets,	$2.50 pk., 8.00 "	bu.

" light shades, $1.00 per 1000 more than above.
CLARK H. BROWN, Ashland, Mass.

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

Gladiolus—America and Independence, all sizes. Write for samples. MUNSELL AND HARVEY, Ashtabula, Ohio.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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GLOXINIAS
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GOLD FISH
Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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Black Cat Hose, 8 ply, ¾-in., 16c. foot, best quality. Try 25 or 50 feet. U. CUTLER RYERSON, 108 3rd Ave., Newark, N. J.

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Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
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PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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PHOENIX
Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
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"Riverton Special."

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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS
Leonard Seed Co., Chicago, Ill.
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California Seed Growers' Association, San Jose, Cal.
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Brasian Seed Growers Co., San Jose, Cal.

SEEDS
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Michell's Seed House, Philadelphia, Pa.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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Flower Seed for the Florist.
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J. M. Thorburn & Co., New York City.
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Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds.
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T. J. Grey Co., Boston, Mass.
Seeds for Florists.
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Albert Dickinson Co., Minneapolis-Chicago.
Lawn Grass.
The Right Seeds in the Right Place.
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S. D. Woodruff & Sons, New York.
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J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

VEGETABLE PLANTS

TOMATOES.

5000 Comet Forceing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

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Albany Cut Flower Exchange, Albany, N. Y.
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Rochester, N. Y.

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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N W
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New Offers in This Issue

A 57 YEARS' LIST OF FLOWER SEED NOVELTIES.

Carter's Tested Seeds, Boston, Mass., and London, England.
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ACACIA PUBESCENS.

S. S. Pennock Meehan Co., Philadelphia, Pa.
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COLDWELL LAWN MOWERS.

Coldwell Lawn Mower Co., Newburgh, N. Y.
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DAVIDGE'S SPECIAL PHOSPHORUS.

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HARDY HERBACEOUS PERENNIALS AND NURSERY STOCK.

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IMPERIAL JAPANESE IRIS.

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"JOHN BAER" TOMATO.

J. Bolgiano & Son, Baltimore, Md.
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NEW POMPON AND POMPON-ANEMONE CHRYSANTHEMUMS.

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SILVER PINK SNAPDRAGON.

G. S. Ramsburg, Somersworth, N. H.
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THE MOST DESIRABLE DAHLIA FOR CUT FLOWER, DELICE.

Henry A. Dreer, Inc., Philadelphia, Pa.
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WEED KILLER.

Pino-Lyptol Chemical Co., New York City.
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SITUATIONS WANTED

Head Gardener

Thoroughly capable man for every department of gentleman's place, desires engagement. Well up in greenhouse and outside work. Specialty: fruit under glass, carnations, roses and 'mums; or as manager of commercial place where results count. Scotch; age 40; married, no family. Address, COMPETENT, care of HORTICULTURE.

SITUATION WANTED as Head Gardener or Foreman; English; age 32; 15 years' experience; best of references as to ability and character. R, care of HORTICULTURE.

SITUATION WANTED by single man, German, to take charge of gentleman's private place; 26 years' practical experience in all branches; well recommended. Please state wages. Address P. O. B. 92, Watertown, Conn.

HELP WANTED

WANTED—Assistant Gardener, a married man; must have had some experience with both inside and outside work. Steady place for right man. H. B. GREEN, Lowell, Mass.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE:

Old established greenhouse business in western New York; four new houses, King construction; well stocked; all land you want; money maker. Investigate. Address M. S., this paper.

In writing to Advertisers kindly mention Horticulture

WATCHING FOR THE INSECT PESTS.

In the report submitted by C. L. Marlatt, chairman of the Federal Horticultural Board, on the pests collected during the month of January, 1914, attention is called to the fact that one egg mass of the Gypsy Moth was detected on cedar from Japan, and a single Brown Tail nest (?) has been taken on Mahaleb stock from France. The European Tussock Moth (Notolophus antiqua Linn.) has been intercepted on two shipments of Holland rose stock, and the Oriental Moth (Cnidocampa flavescens Walk.), which has an extensive distribution in the Orient, has been detected on plants from Japan. The European pear scale (Epidiaspis piricola Del G.), a coccid, which has in recent years become established in certain sections of California, has been reported on pear seedlings from France.

STORM DAMAGE IN MARYLAND.

The great storm of March 1 did considerable damage to florists. James Glass had two greenhouses destroyed, which contained sweet peas and dahlias which were all ruined, the loss running into thousands. John A. Nuth's chimney stack was blown down; Walter Richmond had an end of a big greenhouse blown down entirely; John G. Killian's boiler set a fire which destroyed two buildings—loss over $2,000. All these were on Erdman avenue. A score of other florists suffered minor trouble, such as broken panes and destroyed hotbed sash. It is reported that in the peach growing countries in western Maryland fully half the fruit buds in the orchards are frozen.

Washington, D. C.—A heavy wind storm which visited Washington last week did a great deal of damage. At Garrett Park, Md., it ruined a house of violets that had been brought to perfection by David Bissett for the Easter trade. In Anacostia, a building on the grounds of Fred H. Kramer was unroofed and considerable glass broken; Gude Bros., M. J. McCabe and others lost glass. The wind was particularly destructive in the grounds of the Department of Agriculture where the large banana house was ruined. The large display window at the store of F. H. Kramer, 916 F street, was blown in.

Madison, N. J.—Among the many losses in this section from the heavy snow and ice and falling trees in the blizzard of last week, was the wrecking of one of the greenhouses on the D. Willis James estate by a falling tree.

Short Hills, N. J.—The side-hill range of greenhouses originally erected by Pitcher & Manda, and occupied in recent years by J. J. Wilson, were crushed in and practically ruined by the weight of snow on the night of March 1.

Auburn, N. Y.—A rose house belonging to Dobbs & Son was broken down with weight of snow on the night of Sunday, March 1, causing heavy loss to building and contents.

SPECIAL GREENHOUSE FERTILIZERS
FOR FLORISTS AND GARDENERS
Formulated and Manufactured by men who have made a life study of
FLOWERS—FRUITS—VEGETABLES
UNDER GLASS
In this Country and Abroad
Proper fertilization under glass is more important than fertilization out of doors—and
Fertilization is Our Specialty
Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*
We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.
We are at your service on all matters relating to Greenhouse Fertilization. Write us for farther particulars
CONSUMERS FERTILIZER CO., Long Acre Building New York City
Factory and Laboratory, Farmingdale, N. J. Experimental Greenhouses, Catonsville, Md. Experimental Farm, Farmingdale, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.
NIKOTEEN 30 Per Cent Strength For Spraying
APHIS PUNK For Fumigating
ASK YOUR DEALER FOR IT.
Guaranteed under the Insecticide Act of 1910, U. S. No. 46.
NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON
Guaranteed under the Insecticide Act, 1910. Serial No. 321
Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.
Non-poisonous and harmless to user and plant Leading Seedsmen and Florists have used it with wonderful results.
Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.
Effective where others fail.
½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00
Dilute with water 30 to 50 parts
For Sale by Seedsmen and Florists' Supply Houses
If you cannot obtain this from your supply house write us direct
Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Our Spring Trade Series
March 21, March 28 and April 4
WILL ALL HAVE
Superlative Reading Value

Whenever your Plants and Flowers are troubled by Insects, call for
NICOTICIDE
THE
INSECTICIDE
Manufactured by
P. R. Palethorpe Co., Inc.
CLARKSVILLE, TENN.

Scotch Soot
Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.
We offer the genuine in original cwt. Sacks, at:
$2.75 per 112 lbs.; $12.50 per 560 lbs.
Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

Cocoanut Fibre Soil
This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.
Order now in 100 lb. bags.
20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., - - BEVERLY, MASS.



RHODODENDRONS

One Vital Care Point

RHODODENDRONS in their natural environment, are found growing in the rich, moist soil produced by centuries of falling leaves—a soil that is more than half humus. The roots of Rhododendrons being shallow, they will only thrive in just such a rich moisture holding top soil. These roots don't incline to "go down into the ground for water."

If you would have your Rhododendrons hold their beautiful dark green, waxy foliage, and give you freely of their wondrous blooms; you must furnish them with soil made rich with humus. You must also mulch them heavily with rotted leaves, manure or humus. Alphano Humus when mixed with soil, produces an ideal root home for Rhododendrons. It furnishes a perfect, balanced ration, and holds just the amount of moisture to make the roots happy. As a mulch it surpasses manure or leaves, because it lasts longer, is not unsightly, has no odor, and being in powdered form, can be evenly distributed over the soil.

Down at Sag Harbor, Mrs. Russell Sage's place, there are beautiful Rhododendrons growing on Alphano Humus treated soil, that previously would scarcely grow wire grass.

For your lawns—gardens, shrubs and trees, Alphano Humus is highly desirable. Being so reasonable in price, you can use it freely.

Send for the Humus Booklet. It tells about Humus in general, and Alphano Humus in particular.

5 BAGS for $5

$12 a ton—$8 by the carload.
F. O. B. Alphano, N. J.

Alphano Humus Co

950 Whitehall Building, New York City

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals
MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY
CORRESPONDENCE SOLICITED

BIG BLOOMS

and Strong Plants guaranteed. Mix DAVIDGE'S SPECIAL PHOSPHORUS with planting and potting soil. Water roots are made, top dress little and often. $2.00 per 100 lbs.

HUDSON CARBON CO., Ballston Spa, N. Y.

In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Beverly, Mass.—R. S. Bradley, one house.

Ligonier, Ind.—Otto Schrock, one house.

Palmer, Mass.—E. L. Johnson, one house.

Belleville, Ill.—A. G. Fehr, two houses.

Grinnell, La.—Wm. Bader, one house.

Colgate, Md.—J. S. Merritt, carnation house.

Milford, Mass.—Herbert W. Austin, one house.

Chambersburg, Pa.—Hiram Plasterer, one house.

Parkersburg, W. Va.—J. W. Dudley Sons Co., house, 40x300.

Milwaukee, Wis.—C. C. Pollworth Co., three houses, 20x250.

Roslyn, Pa.—Edw. Towill, additions. Victor Greshen, additions.

Syracuse, N. Y.—Baker Floral Co., Lord & Burnham house, 40x200.

New Albany, Ind.—A. Rasmussen, range of rose and carnation houses.

Gregg's Station, Ill.—Bassett & Washburn, five King houses, 34x600.

FIRES.

Pittsburgh, Pa.—The Neff Floral Company sustained a loss of about $1,000 from fire in their store last week.

Minneapolis, Ind.—Charles Schill lost his greenhouse and adjoining buildings by an incendiary fire, causing a damage of $5,000.

Newport, R. I.—A fire in the green houses at Swanhurst, Mr. Geo. L. Rives' estate, did a small amount of damage on Tuesday, March 10, having been discovered by the coachman before it got much headway.

Tulsa, Okla.—The greenhouse belonging to W. A. Chastain and Charles Evans was completely destroyed by fire February 20. The fire broke out in the underground subway of the plant when paper close to the gas engine caught fire. Loss $500. Uninsured.

Gardenville, Md.—Fire broke out in the boiler room of John G. Killian on Furley avenue and Bowley lane, on Sunday night, March 1. The fire, fanned by the high wind, destroyed the entire end of four of the largest houses and caused a loss of about $2,000. Many plants were lost.

New York—On Tuesday afternoon, March 10, the seed store and plant auction establishment of William Elliott & Sons at 42 Vesey street was badly damaged by fire which gutted the basement floors. The loss on the upper floors was caused mostly by water and smoke. Amount of damage cannot yet be correctly estimated.

It's a KinG
Improved Flat Rafter Iron Frame
GREENHOUSE
With ⅜-in. instead of ½-in. Rafters, so we can reduce the depth from 3½ and 4 inches to 3 inches.
Every bit of Sunlight means money to you.
Send for Bulletin No. 41 and be convinced.
KING CONSTRUCTION CO.
28 King's Road, N. Tonawanda, N.Y.
"All the Sunlight All Day Houses"

PATENTS
Trademarks and Copyrights
Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.
SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

Evans 20th Century Arm
Will not twist the shafting pipe. Three times the power of old style elbow arms
Sold only with Evans Challenge Machine
Write for free Catalogue to
QUAKER CITY MACHINE CO.,
Richmond, Ind.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

St. Louis, Mo.—The St. Louis Seed Co. had a big loss on Monday, March 9th, by fire and water. The fire started in the Boatman's Bank next door. The firemen were directing streams of water into the building and it looked very much as though their stock of seeds will be a total loss. They carried a heavy stock and all preparation had been made for the spring sales. The Bentzen Floral Co., around the corner, also suffered considerable loss from water.

PEIRCE PAPER FLOWER POT
Superior to ANY OTHER pot for shipping purposes.
Saves weight and space for the shipper.
Best of protection against damage by frost.
Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.
Only paper pot ever so recognized.
Ask your seedsman or supply house. If they do not keep them, send direct.

Made in Standard sizes, 2 inch to 6 inch inclusive.
Samples furnished free.
E. Allan Peirce
401 Oaks Road
Waltham, Mass.

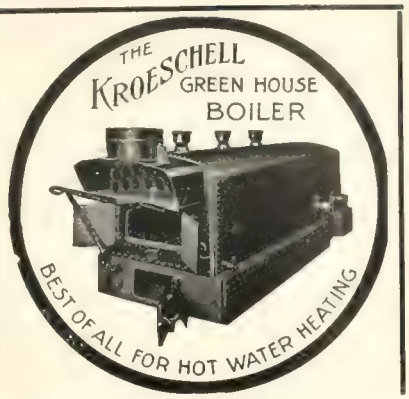
1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY—Long Distance and TradeExport

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.


DREER'S
Florist Specialties.
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.



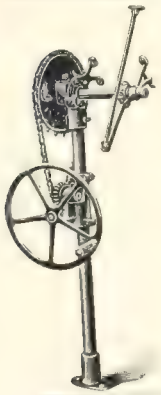
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An Incorrect Statement

IN a recent issue of one of the trade papers, it was mistakenly stated that the N. F. McCarthy house at Montrose, Mass. was erected by one of our competitors.

You will be glad to learn that Mr. McCarthy gave us the order last fall for this iron frame house 250' x 60'.

Without any heat in the house, it satisfactorily stood the snow and wind preasure of the storm that proved so destructive to so many houses.

In a near future issue, we will tell you all about this house.

Hitchings and Company

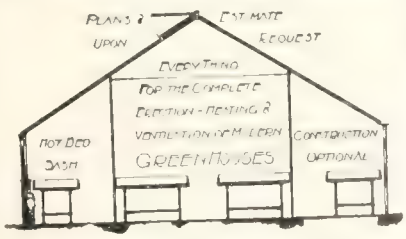
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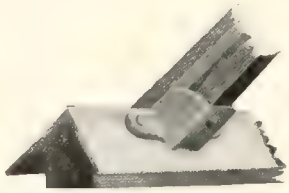
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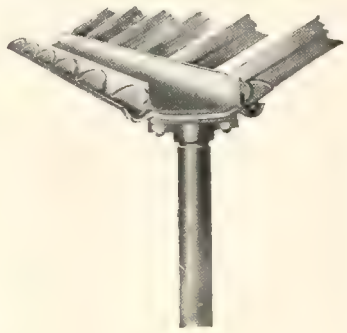
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for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.







Gutter, Plates and Roof Bar Clasps
Being a Plain Statement of Plain Facts

GUTTERS

Cast iron resists rust many times better than steel. No one contradicts that. Cast iron gutters then, are better than steel channel iron gutters. Better, simply because they have better stuff in them. Channel iron is rolled only in stock sizes by the mills. You have to take what sizes suits them; not what best suits your greenhouse requirements.

Our cast iron gutters are made to best meet greenhouse requirements in the best and most economical way. They do exactly what they were made to do.

EAVE PLATES

Our galvanized angle iron eave plate is the only plate that is light enough and still strong enough. It is the one that makes the neatest job and that effectually clears itself of ice.

If all this were not true, so many other concerns would not, in spite of our patent, be continually trying to use it. We keenly appreciate such hearty endorsement of our plate by them. It's just the best kind of advertising for it.

BAR CLASPS

The purpose of bar clasps is to securely and enduringly fasten the bar to the plate. It is plain to be seen that any form of clasp that can be pushed on the plate at any point, can be pushed off at any time. If it has no fixed position it's not a good fix. Any so-called clasp that simply forms a bracket or resting point and fails to come up it's side to form a clasp—is not a clasp at all. It's just a shelf. Any clasp then that is bolted to a certain fixed place on the plate and that forms both a rest and a clasp for the bar, is beyond all argument, the best.

Just such a clasp is our clasp. It's a guarantee against end bar rot. It has ample drip openings to prevent condensation clogging.

IN CONCLUSION

The courts have sustained our patents on an angle iron eave plate. No one else has a right to sell it. It has cost a lot of money to perfect and defend this article. If we hadn't had the endorsement of thousands who have used it, we should never have considered it worth while to defend. We have told you of its many good points. Try it along with some of our other materials. They are all shown and described in our Handy Hand Book.

Lord and Burnham Company

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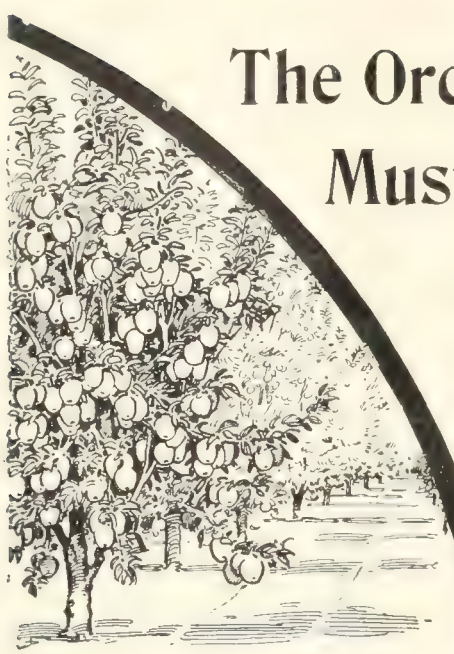
Spring Trade

HORTICULTURE

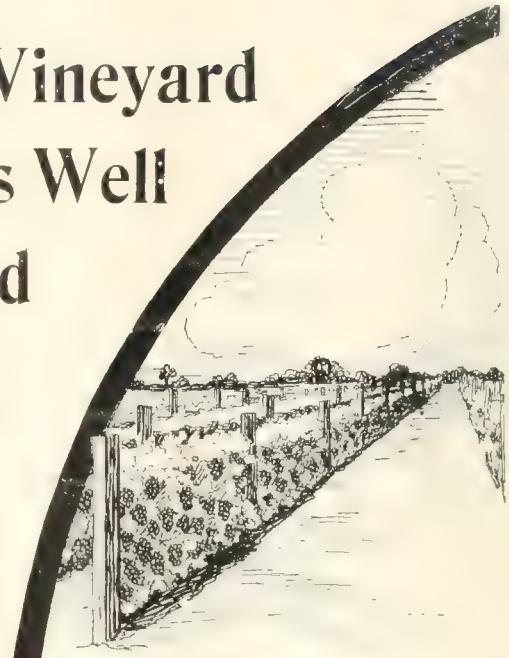
Vol. XIX MARCH 21, 1914 No. 12



FLOWER SHOW NUMBER



The Orchard and Vineyard Must Be Fed as Well as Sprayed



Money in fruit-raising comes from the production of steady crops of first grades

Do not expect either orchard or vineyard to produce its best if you depend entirely on the natural sources of plant food in the soil. Especially must you keep up the supply of

POTASH

for on it depend in greatest measure the quantity, size, color, flavor and shipping quality that give fruit its market value. In fruit-raising, as in all farming, it is easily demonstrated that **Potash Pays.**

Peaches and small fruits that have received the right amounts of potash and phosphoric acid ship better, taste better and are better. At the time of the first cultivation, broadcast 300 pounds acid phosphate and 100 pounds muriate of potash per acre in the apple and pear orchard (150 pounds muriate in the peach orchard).

On citrus fruits or pineapples use sulfate of potash or 200 pounds double manure salt.

Some of the finest flavored strawberries and peaches are poor shippers, especially when barnyard manure is used as a fertilizer. Correct mineral fertilization will often make them firm enough to ship.

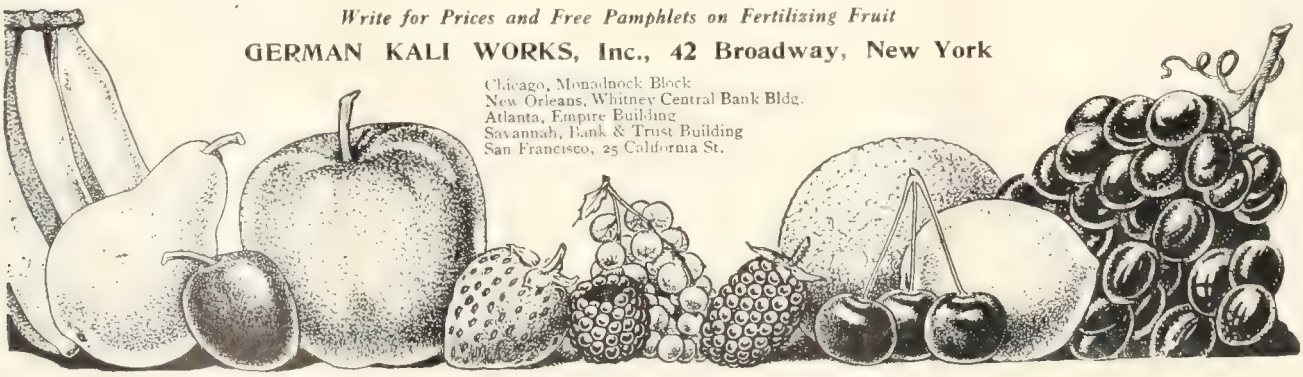
The nitrogen needs of the fruit can be learned by observing the amount of wood or vine growth. Manure alone is not the best or cheapest fruit fertilizer.

We sell potash in any quantity from one 200-pound bag up.

Write for Prices and Free Pamphlets on Fertilizing Fruit

GERMAN KALI WORKS, Inc., 42 Broadway, New York

Chicago, Monadnock Block
New Orleans, Whitney Central Bank Bldg.
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GERANIUMS

This catalog is now being mailed to the trade.

We have one million in 2-in. and 3-in. pots ready for immediate shipment in the finest collection that has ever been offered to the American florist in Novelties, Ivy-leaved, Variegated, Scented, and over 100 Standard varieties representing the highest development of Geraniums yet attained. We furnish good sorts at $2.00 per 100, $18.50 per 1000. Our new illustrated Geranium Catalog marks a new epoch in catalog making—is a maximum of the printers' art. If you don't get yours let us know.

MISCELLANEOUS PLANTS

A general assortment of bedding plants ready for immediate shipment. Special price on large lots.

	Per 100 2-in.	Per 100 3-in.
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ACHYRANTHES—Emersoni, Besteri Mosaica	2.00	3.00
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A Story of Roses!

American growers will no doubt be interested to learn that I have made a contract with Hugh Dickson, Ltd., of Belfast, Ireland, by which, as sole agent, I will distribute to American growers his varieties at the same time and price every year, as they are distributed in Europe. This stock is now growing in my establishment and the buyer will have no vexatious customs delay or charges to pay. The name "DICKSON" is one to conjure with in Roses, and Messrs. Hugh Dickson claim the finest strain of Rose seedlings in the world, as they were awarded a Gold Medal last year by the National Rose Society for each of the 1914 varieties which are as follows:

Mrs. James Lyans **William Cooper**
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Price $2.50 each per plant; 4" pot plants in full growth

Very liberal discount to trade growers

Mrs. Andrew Carnegie

The new Scotch Gold Medal Druschki seedling. This is an Improved Druschki in form, just as large in size, and in addition is deliciously fragrant.

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Prince D'Arenberg — Brilliant scarlet

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MADISON, N. J.

CHRYSANTHEMUMS

New Pompons

GOLDEN CLIMAX. On the order of Quinola, but with foliage that is hard and which will not be subject to mildew. Exhibited at Chicago under the name "Climax." Blooms November 10th to 20th. Extra fine variety for cutting in sprays.

GOLDEN HARVEST. A medium-sized variety of the button type. Deep golden yellow, with a tinge of bronze; a color which when finished is similar to Souvenir d'Or when half developed. A color that is very pleasing.

GOLDEN WEST. A trifle larger than Baby, but of similar formation. Rather compact in growth, but an excellent variety for pot plants. When bench grown will produce excellent sprays for cutting.
From 2¼-inch pots: 30c. each, $3.00 per doz.
3 of a variety at the dozen rate.

CELCO. Bright yellow, shading to orange; similar to color of Quinola, but the sprays are not so compact and are ready to cut two weeks earlier, or about November 1st, when dark yellow Pompons are scarce. Medium height. C. S. A. Certificate.
Plants from 2¼-inch pots: 30c. each, $3.00 per doz.

LEOTA. Delicate pink with bright rose reverse, which gives the effective bright center in each bloom if cut a few days before fully developed. Dwarf habit; fine for pot plants. In season October 25th to November 5th. C. S. A. Certificate.
Plants from 2¼-inch pots: 30c. each, $3.00 per doz.

NESCO. Beautiful shade of old rose, flowers about the size of Iva, La Purite and Lodi. Medium height, maturing first week of November.
Plants from 2¼-inch pots: 30c. each, $3.00 per doz

New Pompon Anemones

AZELDA. (E. D. Smith & Co.) Light pink, with a slight trace of lavender. Ray and disc floret same color, with the exception of the center of the cushion, which is cream color. Single row of lavender ray florets; produces exquisite sprays suitable for any sort of artistic arrangement.
Plants from 2¼-inch pots: 30c. each, $3.00 per doz.

DIANTHA. (E. D. Smith & Co., 1913.) A dwarf compact growing variety that is of the type so desirable for pot plants. It is also an excellent variety to grow for cutting in sprays. The guard petals are white and the center cream color.
Plants from 2¼-inch pots: 20c. each, $2.00 per doz.

LAURITA. (E. D. Smith & Co., 1913.) Bright yellow in color; of a compact dwarf habit. A valuable variety for pot plant culture as a small specimen.
Plants from 2¼-inch pots: 20c. each, $2.00 per doz.

PRINCESS. A seedling from Garza. Pure white, with ray petals, evenly spaced around a large Anemone center of quill petals, slightly touched with the pollen. In our observation, covering three seasons of bloom, it has never failed to show the Anemone center. The flower has good substance, giving a lasting quality as a cut flower. The habit of the plant is good, growing to a medium height and covered with flowers; it is thus an ideal pot plant. For effect in cutting it must be grown without disbudding when a single spray will produce from five to a dozen flowers. It is a midseason, blooming November 1st to 10th.
Plants from 2¼-inch pots: 25c. each, $2.50 per doz., $15.00 per 100.

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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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When Writing to Advertisers Please Mention Horticulture

NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Azaleas

Although Easter is now near at hand a deal of pushing or retarding azaleas may still be practiced with satisfactory results. Whether an azalea indica at present is ahead of time or backward for Easter is now plainly indicated by the appearance of the buds. An azalea just beginning to show color, or one with buds now quite fluffy and ready to open will in a cool but well lighted house be just about right for Easter; or, to be more definite, will be in full bloom in from ten to fifteen days. Now, any that are not in this condition will need special attention, if they are to be good stock for Easter. There will be little need of hastening azaleas for the great spring holiday, but should there be some plants showing merely a swelling of buds, then an increase in fire heat and an exposure to the brightest sunshine will likely bring them out in time. A very cool and shaded place, on the other hand, must be found for those too far advanced. It will be a better place for some of the most forward plants than the coolest part of a fire heated house or shed. To hold the most forward ones back, place in darkened and very cool quarters, but the roots of azaleas must have water in sufficiency, which may mean somewhat less for those in a cool place than those under regular forcing but always enough to prevent any drying out at the roots.

Cannas

It is now time to start a portion of the canna roots into growth, the object being to provide sufficient stock for a trade demanding well-advanced pot-grown plants. Large quantities of cannas are disposed of at retail every spring and at prices which leave no doubt as to their being handled with profit. Wintered-over canna roots, firm and sound but not as yet showing appreciable growth, are in a condition most to be desired at this time of year. They should now be lifted into light, laid on a few inches of sand, soil or dampened moss over bottom heat, until every crown is more distinctly developed. They are then cut into pieces, one shoot to each, and these pieces potted into two sizes, three and four-inch pots, out of which they are sold later on. Or the clumps may first be cut up, then immersed in soil, moss or sand and, when grown out into shoots, be potted up, any way that proves most convenient and economical in dividing the old clumps. Since bench space is scarce with every good grower and 3-inch cannas bring about as much as bedding stock as do those in 4 or 5-inch pots, it is policy to use as small a size of pots as possible for the ordinary grade of bedding cannas. Fancy stock, or sorts especially adapted for pot culture, of course, are treated as such, requiring a repotting and given a favored position in a warm house.

Care of Carnations

With the advent of spring it is absolutely necessary to give air freely in order to keep the foliage from becoming soft and to encourage hard growth. As the days get longer our old enemy, red spider, will begin to get busy if not looked after sharply, but as we can now use water more freely we can by the exercise of a little energy and careful observation keep them in check. Thrips and greenfly will also multiply rapidly if left undisturbed for even a short period and it is well to have them in strict subjection at all times. Carnations develop the healthiest growth in a night temperature between 50 and 54 degrees, according to variety. Much below 50 degrees causes a standstill in growth, which is not at all desirable and in most cases is harmful. With the longer days they will now need more water at the roots.

Smilax

To keep smilax in good growth and vigor look well to the watering at the roots from this out. The beds will dry out more now. Make it a point to keep the soil nice and moist and give them a mulch of cow manure and soil about an inch deep every now and again. Go over your beds often and place new strings so they start to climb before they become entangled. Give ventilation on all favorable occasions and a good syringing on bright days, getting well under the foliage so as to keep them free of red spider which generally becomes quite troublesome from this out. As a crop is cut down hold up on the water until they have made a new start. They like a night temperature of about 60 degrees.

Orchids

Newly potted cattleyas will want very careful watering until they push their new roots into the compost. One point to remember is that it is better to underwater than to overwater. As the season advances they will want a more abundant supply. Do all watering in the morning and give a good syringe so they will have time to become dry before nightfall. They will need some shade, but do not put it on too heavy. All that is necessary is to give sufficient to break the direct rays of the sun. Once in a while give them a sponging with Aphine or Imp soap. Keep temperature near 58 to 60 degrees at night and 10 to 15 degrees higher with sun heat. During damp and dark days do not use much water around the house.

Pansies

Keep the pansies nice and moist at the roots. As the days become warmer you can pull the glass off them, replacing it at night, as we are liable to have some very cool nights for some little time yet.

Stevia

This plant so highly valued from [illegible] after the New Year will want attention now. Place the stock plants well up to the glass so they will produce sturdy cuttings. At about 50 degrees at night, in a short time they show plenty of cuttings, which can be placed in a cool propagating bed and [illegible] without any trouble.

Mr. Farrell's next notes will be on the following: Carnation Ground; Plants for Vases and Boxes; Preparing [illegible]; Starting Achimenes; Transplanting Seedlings; Salvia Cuttings.

MAR 25 1914

ANEMONES OR WIND FLOWERS

Southern gales are sweeping over the land, breaking the last links of the icy chain of winter. The snow has scarcely melted away in forest recesses when it is succeeded by white sheets of Anemone nemorosa and A. sylvestris, nestling along the sunny outskirts of the woods. True harbingers of spring they bend their heads down low to escape the violent tossing of occasional rainstorms, ready to rise again at the first interval. A few weeks later, when visiting our previous fall plantings of Anemone vernalis, alpina, narcissiflora and ranunculoides along a path through thinly wooded sections, we behold light-winged flowers gently swaying in the radiant bright spring day. With the advent of May our garden begins to shower its floral treasures upon us. Statelier forms and brighter colors, however, do not lessen our admiration of the beauty of the more tender bulbous anemone-species from southern Europe. Planted early in fall on sheltered spaces, under sufficient leaf-covering to keep the ground absolutely free from frost, they have survived the winter. The cover gradually removed during the previous weeks, they now form their tufts of ground foliage and are ready to unfold their buds. The attractive flowers of the red, white and blue A. coronaria varieties, measuring about 2 inches across, are borne on long erect stems. Those of A. fulgens appear in bright scarlet, their large petals surrounding the nearly black center.



ANEMONE VERNALIS

Single varieties are preferable to the double ones, being a very choice material for filling vases. Both the coronaria and fulgens anemones will be also found well adapted to pot-culture in a sunny and well ventilated greenhouse, with 50 degrees average temperature. The same is to be said of the very handsome Irish St. Brigid anemones, which, like the coronaria or poppy windflowers, prove charming border plants, when associated together in clumps. The latest of the vernal class to flower is our native Anemone pennsylvanica, a very effective species for naturalization throughout thinly wooded sections of parks. In the north I found its flowers snow-white, while in the middle Atlantic states they sometimes lack purity.



ANEMONE JAPONICA QUEEN CHARLOTTE

Not until after the last hot midsummer waves are past may we enjoy the incomparable charm of the Japanese windflowers. The heavy dew of cool nights and the clear sunlight of September days noticeably influence the perfectness, size and color of the flowers. Grouped together in sufficient numbers we again witness the enhancing spectacle of light-winged masses of flowers gently swaying under the touch of the wandering breeze. Of the standard varieties of Anemone Japonica in pure white Japonica alba (Honorine Jobert), Whirlwind and Geante Blanche are the best. Desirable tall growing pink sorts both for bedding as well as the border are Queen Charlotte, Kriemhilde, Alice, Loreley and rosea-superba, with the lower growing semi-double lavender pink Rosa Zwerg as outer edge. Carmine and magenta shades predominate in the flowers of Prinz Heinrich, Diademe.

Brilliant and Purpurine, while for bright and gaily mixed effects the white variously-suffused French varieties Aureole, Beaute Parfaite, Coupe de Argent, Couronne Virginale, Elegantissima and Couronnement will prove of special value. The treatment of anemones differs according to our latitude and mode of employment. As a rule all prefer a rather light soil, rich in moisture retaining humus, but otherwise well drained. Vernal species naturalized need little care, save that we prevent grass and other native ground vegetation from smothering them and see that the ground is from time to time enriched to insure a thrifty growth. The requirements of the poppy St. Brigid and fulgens anemones were outlined before. The Japanese class is particularly responsive to richly manured ground, surface mulching and a half shady position, in the middle Atlantic states. For the north the open sunny exposure is preferable. Windflowers may be raised from seed sown in spring in cold frames or propagated by divisions; the Japanese species also by rootcuttings.

Richard Rothe

Riverton, N. J.

Yellow Marguerites

At one time botanists classed these plants under "Pyrethrum," but now we find them under the heading of "Chrysanthemum frutescens." Botany, like human beings, is somewhat changeable; however, it is a fine study for stimulating thought, and training the powers of observation, two attributes of humanity, that in these strenuous days are somewhat neglected.

There are several varieties of these yellow daisies in cultivation. I have at least seen four, often two being seen on the same plant, showing that they are of a sporty nature. There is a great difference in floriferousness, and to get a free flowering batch one must use vigilance in selecting cuttings from that part of the plant which flowers most freely.

In Europe they seem to have very little difficulty in getting flowers during the winter months from plants raised from spring cuttings, provided they are pot-bound in their flowering pots, which are generally eight or nine inches in diameter in the fall of the year. Here around Boston, growth during the hot months is slow, and we are very much troubled with the points of the shoots getting stunted, or, I believe, stung by some insect. I have found no cure for it, except cutting out the affected part, and trusting to a break starting lower down the branch. This, however, does not always happen, and thereby many plants are lost, which is rather discouraging to a commercial man.

To get flowers during the dark months of winter is the aim to be attained, as Mr. Welch stated at a recent meeting of the G. & F. Club of Boston. He has more orders than he can fill, even though willing to pay a good price for them. Cuttings may be rooted any time during the spring months. I believe better success can be had, by pot-growing the plants intended for early winter flowering, using a strong rich loam for potting, adding plenty of bone meal, and lime. No stimulating food should be given until the flower buds show up well all over the plant, and then we find that bone meal, lime, and soot are beneficial. A little may be applied twice a week and at no time should the plants be allowed to wilt, as the result will be short-stemmed flowers.

I have known good success being obtained from old plants kept over from year to year, reducing the ball every year after a slight drying off. There is need of an exchange of ideas from different sections of the country as regards the cultivation of these plants for early winter flowering, as they are among the most popular cut flowers we have, and I hope others will give their experiences.

George F. Stewart.

Medford, Mass.

"GET BUSY"

Mr. L. W. C. Tuthill, the well-known advertising agent, speaks very optimistically about the spring business outlook. In a recent conversation, he said that he based his views on the following conditions as he finds them:

"It has been a noticeable fact that with preceding business depressions—that the time just in advance of a return of prosperity, we have always had an additional amount of printed matter in hand to do for our customers. This condition exists now more than ever in our history. In fact we have three times more than we have ever had before.

"We attribute this condition to two reasons—business when a bit quiet, advertisers have more time to consider the various breaches in their walls, and they turn their attention to endeavors to close them up. With their eyes turned toward their competitors, they at once proceed to get in shape belated catalogs, or put into execution ideas on printed matter, which have been long laying dormant.

"Another reason is, we think; that in the anticipation of the return of prosperity, advertisers are getting ready to handle the business. In talking the matter over with a number of large advertising agency heads, they invariably state that with few exceptions their customers have increased their appropriation for 1914.

"None of them, however, expect a spectacular return of prosperity, but do believe the roots are good and strong, and that the top growth will be a healthy one. Already they claim that the American Beauty of business has some good husky breaks and the flowers are coming strong and of splendid color.

"There is plenty of business to get. It's up to you and me to get busy and get the business. Yes, 'get busy'—that's the right prescription."

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The wearing of the green

Our friends of Emerald Isle lineage have always been credited with a considerable inherent love for nature. We sometimes wonder what some of their romantic poets of other days would think if they could come back to life again and see the grotesque adornments known as "green carnations" which in these enlightened times seem to gratify in the fullest degree the patriotic yearning to indulge in the "wearing of the green." The dyeing of carnations is a barbarous practice for which no justification exists. Why a florist with any pretensions to refinement and good taste should expose the vulgar things as central features of his show windows is beyond comprehension. "What fools we mortals be."

Practical "co-operation"

In this issue HORTICULTURE's advertisers fire the first gun in the active campaign for spring trade. After a long and, in some respects, disheartening winter, we greet the opening spring and see in the outlook much to awaken new hope and confidence. At the time, years ago, when the resumption of specie payments by the government was a proposition approached with some doubt and timidity, it was said "the way to resume is to resume." In like manner it may be said that the way to make good business this spring is to go ahead and make it. That is the spirit which inspires the advertisers whose offers appear in these pages and if you want to help toward the resumption of activity all around you cannot do better than back up these advertisers with a prompt and generous response. This is the sort of co-operation that co-operates.

Spring exhibitions

March has done very well as to flower shows. Last week the florists of Indiana and Illinois had quite lively innings at Danville, the Massachusetts Horticultural Society has just closed a four days' exhibition at Boston of exceptional quality and beauty, and now comes the big show at New York, to wind up the month, not to mention the several minor local affairs in various places. The Spring Exhibition is a time-honored institution in Boston and few are alive now who can remember when the Boston spring shows were not. New York, with its myriad diversions, has not until recently taken very seriously to flower shows, but, should the ambitious enterprise now opening prove the popular success which we all hope for, then we may look for a regular annual recurrence of flower week in the great metropolis and thence will radiate a mighty influence for the advancement of horticulture.

An event in Boston

The Executive Board of the Society of American Florists and Ornamental Horticulturists has been in session most of this week in Boston. HORTICULTURE takes much satisfaction in the knowledge that its home town is honored by the presence of a body of men so distinguished in their calling and so thoroughly representative of the most progressive elements in horticultural industry. That every member of the Board was present, which rarely happens, shows a realization of the importance of this year's affairs and is of itself a direct compliment to Boston. It is not our province to make any comment at the present time on the work of the Board while in Boston. The secretary will in due time give publicity to all details which are of general interest. We are privileged to say, however, that the Board found on arrival in Boston that all necessary preliminary steps to assure a grand outdoor garden exhibition in connection with the Convention next August had been happily consummated by the local officials of the Society and that, with the enthusiastic co-operation of the City Government and the Park Department, the absolute success of this magnificent project is now beyond any possibility of doubt.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Lime

It is a fact that there are several grades of lime, and it is advisable for growers to see what kind they are getting when they buy lime, already slacked, and named Agricultural Lime. Find out whether this is burned lime, or whether it is just the ground limestone. The latter may be all right to use on fields where its action does not have to be immediate, but for the greenhouse where it is desired that the lime act at once, we must have good burned lime, and thoroughly air slacked, or, better still, hydrated, as it will then be slacked very evenly. Where this lime cannot be had, and it is not used to an extent to warrant getting it by the car, the best way is to get good barrel lime, and make a box for it in the cellar, and then slack it in the box by sprinkling a little water over it. Not too much water, so that the lime will not remain wet after it has slacked. It may appear quite damp for a little while but it will dry out very fast as it cools. The ground limestone is too slow in action for the greenhouse and should not be used unless in vine borders or such, where it is wanted to act slowly for a very long time.

Mulching

With the coming of April, the days will begin to be warm, and as a result the houses will be aired very freely, and will consequently dry out a good deal. Too much of this drying out is not good for the plants, and in order not to waste too much time watering it is well to mulch the houses quite freely with manure. A little soil may be added, but let it be coarse chunks of sod that will keep the surface of the benches rough, and will keep the water from running all over the benches when the plants are being watered. Where good manure is not to be had, use the coarse sod alone, and then give the plants an extra dose of liquid manure. A little sheep manure or bonemeal may be added to the soil giving preference to the bonemeal. See that it is well mixed in so that it is evenly distributed when the soil, or rather the coarse sod, is applied to the benches.

Tying

Do not for a day neglect this very important part of the work, for if this is let go the plants will go back very rapidly, this being especially true with Beauties. The houses will do a great deal toward paying the coal bill, and if they are given half a chance they will produce enough flowers to make up for all the extra trouble that we may have taken with them. It will not take long to keep the plants tied if this is done regularly, and the labor will be well spent.

Blind Wood on Beauties

There is no need of much blind wood on the Beauties now, and where there is too much of it some of it can be removed without any harm whatever. Of course it would not do to cut too much of it away. Plants can be cut down now and if well cared for will make excellent houses for the early summer months. To do this we would cut them right down to the soil, and then let them come along as fast as they want to. Needless to say, plants that are treated in this way will have to be kept a little dry and it will not do to water them well until after the growth starts to come. Some growers will apply a coat of manure as soon as the plants are cut down but we find it better to wait until the plants are well started and then let them have all the feed that they can take. A little lime scattered among the plants after these are cut down will help dry them out a little bit, and also sweeten the soil that remains in the benches. We always remove all the loose soil, and washed out manure that lies on the surface of the benches, as soon as the plants are cut off. This not only removes all the loose dirt and rubbish but it will take a large number of such things as sow bugs, wire worms and thrips. This refreshes the plants, as the old manure around them often causes a little harm, and the little new rootlets will soon find their way into the new soil that is applied afterward. As soon as the plants start after being cut down watering can commence, but only in the way that young plants are watered, and that is only around the ball, gradually increasing this circle until the whole bench is covered as is the case with the young plants. Liquid manure will help these plants along a good deal, too. It should be made very strong and applied as often as possible, or rather as often as the plants will take it. Make sure that the plants are not too dry when it is applied as it will then singe off the roots a little bit and may even hurt the foliage.

Cutting

The warmer weather being here to stay now, more attention will have to be given so as to make sure that the buds are cut when they are at the right stage, and that they are not allowed to become too open, and again not cut so tight that they will never open up. Cut them just a little tighter as the spring advances, and get them into the icebox as soon as possible afterward. It is not advisable to run the icebox too cold, for then the buds are checked. By this we mean that if the buds are stored in a cool but not an ice-cold box they will go on growing larger, even though they do not open out much more. Buds are sometimes drawn in this way for exhibition purposes but they generally lose color if they are allowed to remain in the box too long, so we would much rather leave them right on the plants to develop to their full size and then cut them, cool, and they are ready to be put up at the show.

Cracked Ice

Now the weather will be quite warm during the day, even though the nights are cold and frosty. A little cracked ice can be used with safety now, and the roses will benefit by it a good deal as they will arrive in the market as fresh as if they were just cut. Do not let the ice come in contact with the flowers as that would harm the petals, and would no doubt bleach them to some extent. Cover the ice well with paper, or, when packing the longer grades of roses, put the ice at the foot of the stems.

SPRING SHOW IN BOSTON

The Spring Flower Show of the Massachusetts Horticultural Society, which was held in Horticultural Hall, Boston, from Thursday, March 12, to Sunday, March 15, was one of the best given in years and with a number of features which were exceptional in cultural excellence and sensational in effect. The three exhibition halls were filled to repletion.

The main hall, a partial view of which is here given, was brilliant with groups of flowering shrubs, orchids, forced bulbs, etc. One of the most extensive groups was placed by R. and J. Farquhar & Co., and, as shown in the accompanying picture was composed of rhododendrons, lilacs, wistaria and other brilliant blossoming shrubs backed by a group of bay trees. Among the side exhibits by this firm were a group of Calla Elliottiana and a plant in flower of a new rhododendron from the Wilson Chinese collections. This bears diminutive pale flowers in clusters and is known as No. 1324. It received honorable mention as did also the large group.



THOMAS ROLAND'S ACACIAS AND ERICAS.
Spring Exhibition in Boston.

Of the larger groups in this hall W. W. Edgar Co. and Duncan Finlayson were the principal exhibitors. Edgar's display of Rambler and Polyantha roses won first prize and a silver medal and their azaleas and other Eastern flowering plants were splendid examples of cultural ability. Palms, acacias, schizanthus and primulas were splendidly shown in the Finlayson central group. Other notable groups were by Miss C. Warren, who received a bronze medal for group of roses in pots, Thos. E. Proctor and Mrs. J. L. Gardner.

The orchids, which occupied quite a section in this hall were uncommonly good. Duncan Finlayson got a silver medal for his group, which was especially rich in dendrobiums and cymbidiums. F. J. Dolansky and E. MacMulkin held up the reputation of the commercial orchid growers with two splendid displays in which cattleyas of great vigor predominated, MacMulkin being awarded a bronze medal. Wheeler & Co. got a certificate of merit for Phalaenopsis leucorhoda (Schilleriana amabilis) and a similar honor went to E. B. Dane for Cattleya intermedia alba. In the farther section of this hall the cyclamen, cinerarias, schizanthus, etc., were shown in size and perfection unknown outside of Boston.



PARTIAL VIEW IN MAIN HALL.
Spring Exhibition in Boston.

The lecture hall presented a rare picture. The stage end was occupied by a group of acacias, ericas, epacrises, chorizemas and other Cape and Australian subjects staged by that invincible grower, Thomas Roland. Our illustration conveys a very imperfect idea of the glory of this wonderful plant group. It was recognized with a special diploma and a gold medal was given Mr. Roland for three specimen plants of Erica melanthera which averaged 8 ft. high and 5 ft. through and made a rare spectacle for the lover of such subjects.

The main floor space in this hall was given over to the dinner table decorations by retail florists, of which there were twelve entries. These were judged by three society ladies. First prize went to Fred. E. Palmer for a lovely arrangement of daffodils and acacia flowers, the corsages of violets and acacia; 2nd to Sidney Hoffman, his arrangement consisting of mollis azaleas and Mrs. Aaron Ward roses; 3rd to Edw. MacMulkin, who used double flowering almond and pale pink azaleas. Other combinations were pink sweet peas in crystal holders by Mrs. Gustav Peterson, Red Killarney roses and sweet peas by Mrs. D. Finlayson, Killarney and cornflowers by Wax Bros., sweet peas and Adiantum Farleyense by Wax Bros., calendulas by Henry Quint, azalea centre and

gardenia corsages by Boston Cut Flower Co., pink and white azaleas by H. R. Comley, Irish Fire Flame roses by Boston Cut Flower Co., and Hadley roses, gardenias and lilacs by Penn, the Florist. The desirability of having the flower stems in water in this table work was well-demonstrated a few hours after staging for all those not so provided were soon wilted and disreputable looking.

On side tables in this hall the carnations were staged. A silver medal to Cottage Gardens Co. for a vase of Matchless, was the special prize award in this section. S. J. Goddard was represented by a collection of superb flowers not for competition. Beautiful Rosette was here seen in perfection. A. A. Pembroke also made a fine showing of skilful carnation culture. Patten & Co. showed Princess Dagmar in gigantic blooms, A. Roper had Alice Coombs and a seedling No. 109, and Pink Supreme from J. H. Leach & Son, was stunning. Snapdragons were shown by Geo. E. Buxton and W. C. Rust, the latter showing "Weld Pink," which is a particularly pure tint of light pink and will surely become popular.

Among the sterling sensations were the vases of new roses by Waban Rose Conservatories and Montgomery Bros. The latter won a silver medal with a magnificent vase of Hadley. Waban Rose Conservatories was awarded a special silver medal for their sensational seedling Mrs. Moorfield Storey. This is a silvery pink flower, very double, deeper tint in the heart, enormous heavy bloom with delicious fragrance and the same thick shining foliage which is found on Hadley. The above mentioned as well as Killarney Queen and Mrs. Charles Russell were shown with stems 4 to 6 feet tall!

William Sim again came to the front with wonderful sweet peas, pansies and violets. F. J. Dolansky showed gardenias the equal of which have never been seen here. In the small hall most of the bulb exhibits were placed. There were long ranks of tulips, daffodils and hyacinths in great variety, William Whitman being the largest exhibitor in these classes. In this hall a most remarkable exhibit of fine vegetables was made by the Boston Market Gardeners' Association. The vegetables were packed in bushel boxes and there were 100 bushels of them.



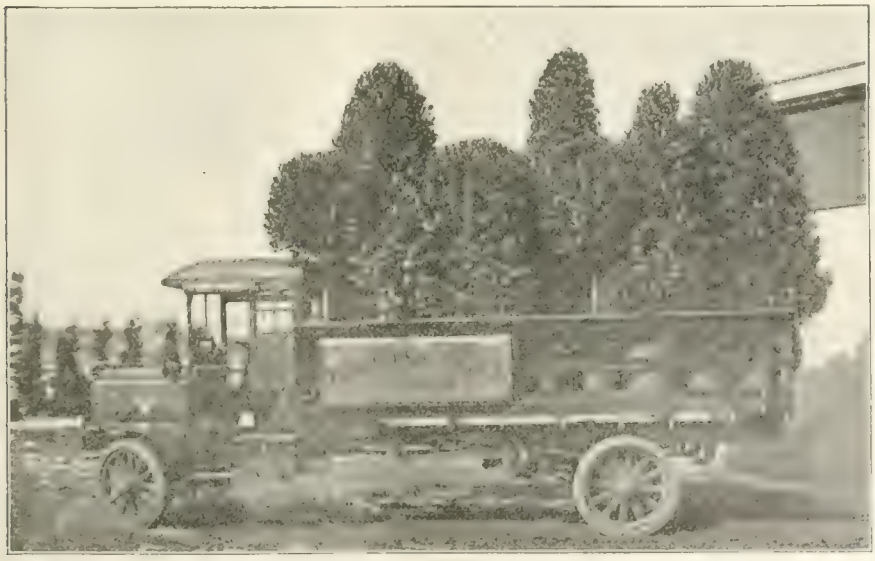
R. & J. Farquhar & Co.'s Plant Group.

Spring Exhibition in Boston.

Below is the complete list of awards:

Azalea Indica—Four plants: W. W. Edgar Co.; three plants, private growers only, Wm. Whitman. Specimen plant: 1st, Miss C. Warren; 2d, A. W. Preston. Palms—Pair: 1st, Wm. Whitman; 2d, Wm. Whitman. Specimen plant: Wm. Whitman. Acacia—Specimen plant in bloom: 1st, Weld Garden; 2d, Mrs. C. G. Weld; 3d, Weld Garden. Hard-wooded Greenhouse Plants—Six specimens, other than Acacias, Azaleas, and Ericas: 1st, Weld Garden; 2d, W. W. Edgar Co. Specimen plant: 1st, W. W. Edgar Co. Rambler Roses—Three plants: 2d, W. W. Edgar Co. Group of Roses—1st, W. W. Edgar Co.; 2d, Miss C. Warren. Cyclamens—Twelve plants in not over seven-inch pots: 1st, Weld Garden; 2d, Mrs. Lester Leland; 3d, Mrs. J. L. Gardner. Six plants in not over ten-inch pots: 1st, Mrs. Lester Leland; 2d, Weld Garden; 3d, Mrs. J. L. Gardner. Specimen plant: Mrs. Lester Leland. Cinerarias—Grandiflora type, six plants: Mrs. J. L. Gardner. Specimen plant: Mrs. J. L. Gardner. Schizanthus—1st, Mrs. J. L. Gardner; 2d, Miss C. Warren; 3d, Weld Garden. Hyacinths—Six pans of six bulbs, one variety in each: 1st, Wm. Whitman; 2d, E. A. Clark. Single pan, ten bulbs of one variety: 1st, E. A. Clark; 2d, Francis Skinner; 3d, E. A. Clark. Single pan, six bulbs: 1st, Wm. Whitman; 2d, Francis Skinner. Single Early Tulips—Six pans: 1st, Wm. Whitman; 2d, Wm. Whitman; 3d, A. W. Preston. Joost van Vondel—Three pans: 1st, Wm. Whitman. Any other white variety: 1st, Wm. Whitman; 2d, A. W. Preston. Mon Tresor: Wm. Whitman. Any other yellow variety: 1st, Wm. Whitman; 2d, A. W. Preston. Vermilion Brilliant: A. W. Preston. Any other red variety: A. W. Preston. Keizerkroon: Wm. Whitman. Pink Beauty: Wm. Whitman. Any other pink variety: 1st, Wm. Whitman; 2d, A. W. Preston. Duchess of Parma: Wm. Whitman. Double Tulips—Six pans: 1st, Wm. Whitman; 2d, A. W. Preston; 3d, Francis Skinner. Narcissuses—Collection of Large Trumpet Varieties, four pots: 1st, Wm. Whitman; 2d, A. W. Preston; 3d, Wm. Whitman. Collection of Short Trumpet Varieties—Wm. Whitman; 2d, A. W. Preston; 3d, Wm. Whitman. Crocus: Mrs. J. L. Gardner. Lily of the Valley—Wm. Whitman. Amaryllis—1st, Mrs. J. L. Gardner. Lilium longiflorum—1st, W. W. Edgar Co.; 2d, Francis Skinner. General display of Spring Bulbous Plants, arranged with foliage plants: 1st, Mrs. J. L. Gardner. Orchids—Group of plants arranged for effect with ferns or other foliage plants: 1st, Weld Garden; 2d, Edward MacMulkin. Specimen plant: 1st, Miss C. Warren; 2d, Joshua Lawson; 3d, F. J. Dolansky. Roses—Twenty-five blooms of Killarney or any of its pink sports: Waban Rose Conservatories. Twenty-five of Mrs. Charles Russell: Waban Rose Conservatories. Twenty-five of any new named variety not in commerce: Montgomery Co. Carnations—Vase of one hundred: 1st, Albert Roper; 2d, A. A. Pembroke. Fifty light pink: A. A. Pembroke. Fifty dark pink: A. A. Pembroke. Fifty scarlet: A. A. Pembroke. Fifty white variegated: A. A. Pembroke; 2d, James Wheeler. Fifty white: 1st, A. A. Pembroke; 2d, A. A. Pembroke. Violets—1st, Esty Bros.; 2d, Esty Bros. Marguerites Yellow: 1st, James Wheeler. Antirrhinums—1st, G. E. Buxton; 2d, G. E. Buxton. Camellias—Walter Angus. Gardenias—F. J. Dolansky. For the best table decoration laid for eight covers: 1st, Fred E. Palmer; 2d, Sidney Hoffman; 3d Edward MacMulkin.

Gratuities—Thomas T. Watt, Azaleas; A. W. Preston, Azaleas and bulbous plants; Edward MacMulkin, [illegible]; Lester Leland, trained plants; Mrs. J. L. Gardner, "Reading Gem" Azaleas; W. W. Edgar Co., display of flowering plants; Miss Cornelia Warren, display of flowering plants; Weld Garden, [illegible] flowering plants; Wm. Whitman, [illegible]



Auto Truck with Load of Bays for the Farquhar Exhibit

THREE BUSY MEN AT NEW YORK SHOW



WILLIAM H. DUCKHAM,
President New York Florists' Club.



JOSEPH A. MANDA,
Superintendent of Exhibition.



JOHN YOUNG,
Secretary.

of bulbous plants; Francis Skinner, display of bulbous plants; S. J. Goddard, carnations; Patten & Co., Carnation Princess Dagmar; Richard Kimball, carnations; J. H. Leach & Son, carnations; Walter Angus, Cherokee Roses and Camellia blooms; Edward MacMulkin, Annual Chrysanthemums; Thomas T. Watt, Camellias, Statice Holfordi, and Streelitzia Reginae; G. W. Page, Cypripedium acaule; Mrs. E. M. Gill, cut flowers.

Gold Medal—Thomas Roland, three specimen Erica melanthera.

Silver Medals—Waban Rose Conservatories, new rose Mrs. Moorfield Storey; Cottage Gardens, carnation Matchless.

Special Diploma—Thomas Roland, group of Australian plants—Acacias.

First-class Certificates of Merit—E. B. Dane, Cattleya intermedia alba; Wheeler & Co., Phalaenopsis leucorhoda (Schilleriana amabilis).

Honorable Mention—R. & J. Farquhar & Co., Chinese Rhododendron, No. 1324 Wilson; Thomas E. Proctor, flowering plants; Fottler, Fiske, Rawson Co., Cyclamens; R. & J. Farquhar & Co., flowering plants; Mrs. C. G. Weld, Antirrhinum Weld Pink; Wm. Sim, Pansies.

Vote of Thanks—Walter Hunnewell, Ericas; R. & J. Farquhar & Co., Bay trees and palms, dwarf hybrid Cinerarias; Wm. Sim, Sweet Peas; Walter Hunnewell, collection of Camellias.

BRITISH EXHIBITS AT THE PANAMA-PACIFIC EXPOSITION.

Several of the leading British horticulturists, it is expected, will be represented at the Panama-Pacific International Exposition, at San Francisco, although this important event is not to have official recognition by this country. Amongst them will be Sander & Son of St. Albans and Belgium, who will make a magnificent display of begonias and orchids. Louis L. Sander has paid a special visit to the Exposition grounds, where he was the guest of Geo. A. Dennison, chief of the Exposition Department of Horticulture. Mr. Sander stated to an interviewer: "The Department of Horticulture scheme is alone worthy of a visit from Europe to see. No exposition that I have ever attended, and I have seen them all during more than a decade, has ever approached your present undertaking either in magnitude of original conception, comprehensiveness of scheme, or grandeur of its natural and artificial setting. This is the biggest Exposition that has ever been attempted."

W. H. ADSETT.

GARDENERS' REUNION.

The Gardeners' Reunion, which for the past few years has been held in New York during the fall, but which was postponed last year until the International Flower Show this spring, will occur on Tuesday, March 24th, at Thum's Bowling Alleys, Broadway and 31st street, New York.



JAMES STUART,
Chairman Committee of Arrangements Gardeners' Reunion.

This reunion, which is not under the auspices of any one organization, but is conducted by a committee composed of members of various local societies, will consist of a bowling tournament throughout the day, to be followed by a dinner in the evening.

The chairman of the arrangements committee is James Stuart, of Mamaroneck, N. Y. He reports that he has already secured many prizes and that the indications are that there will be a good attendance.

The gardeners and their friends are invited to participate in this reunion. Tickets, which will include the bowling and dinner, may be purchased by addressing James Stuart, Mamaroneck, N. Y., or by applying to him during the flower show.

PUBLICATION RECEIVED.

The Annual Proceedings and Bulletin of the American Rose Society for the year 1913 has been issued. It contains a full report of the Rose Section of the International Flower Show, and other society transactions and some interesting and practical original articles. Particularly useful are the lists of rose introductions from 1898 to 1913 which fill eight pages of the Report. Secretary Hammond has turned out a very creditable publication.

The second annual School for Tree Wardens and City Foresters will take place at Mass. Agricultural College, Amherst, on March 24, 25 and 26. There will be instructive lectures and an interesting exhibition of spray materials, implements and accessories, as well as appliances for tree moving, and a collection of fungi which affect trees.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The March meeting of this club was well attended. The speaker of the evening was Roy C. Pierce of the Department of Agriculture, Washington, and his topic was the Chestnut Tree Blight. His remarks showed full familiarity with his subject and were listened to with close attention. He had samples of diseased bark and wood and other exhibits appertaining to the work in which he is actively engaged.

Among the interested visitors were several members of the Executive Board of the S. A. F. who were holding their anuual meeting in Boston at the time. President Theodore Wirth, being introduced expressed his pleasure at meeting so many gardener and florist friends and paid an appreciative compliment to Boston's horticultural pre-eminence. He spoke feelingly regarding the late J. A. Pettigrew, whom he regarded as a gardener of the highest type and made some pertinent remarks regarding club membership and the duty of loyalty to organization. C. H. Totty was next called upon and responded with a nice talk in which he told of the preparations being made in New York for the approaching spring show. Next came W. F. Gude who made a spirited address full of optimism and glorying in the honor of being a flower grower. He closed with a few words about the proposed rose test garden in Washington and the plans to erect an everlasting memorial for the late William R. Smith.

The display on the exhibition platform was not as large as customary but it was all of high merit. A certificate of cultural merit was given to W. N. Craig for some splendid white antirrhinums. Wm. Sim received reports of merit for four sweet pea novelties, Bohemian Girl, Orange Orchid, No. 4 A and No. 12. Votes of thanks were accorded Mt. Auburn Cemetery for Strelitzia, Robert Duncan for cold-frame lettuce, Wm. Sim for sweet peas and pansies and W. N. Craig for cinerarias.

The banquet committee made a most pleasing report of the recent successful affair and turned in a surplus for the reserve entertainment fund. T. H. Westwood was commissioned to act as representative of the club in cooperation with city officials and others in the work for home and school garden education.

S. A. F. EXECUTIVE BOARD IN BOSTON.

The Executive Board of the national society has been holding its annual session in Boston this week and many details for the big August convention have been worked out with the help and advice of the local members and of the city officials through the Park Department. It is worthy of note that every member of the Board was present, viz.: President Theodore Wirth, Minneapolis, Minn.; Vice-President P. Welch, Boston; Secretary John Young, New York; Treasurer W. F. Kasting, Buffalo, N. Y.; J. J. Hess, Omaha, Neb.; John A. Evans, Richmond, Ind.; August Poehlmann, Chicago; J. A. Peterson, Cincinnati, O.; Chas. H. Totty, Madison, N. J.; Thos. Roland, Nahant, Mass.; J. K. M. L. Farquhar, ex-officio, Boston. All the visitors with the exception of Messrs. Young and Totty, who were obliged to leave Wednesday night, were participants in an auto ride through the park system on Thursday forenoon, under the guidance of Deputy Commissioner J. B. Shea. As we go to press a banquet is being prepared at the Parker House, for Thursday evening, a full account of which will appear in our next issue.

LANCASTER COUNTY FLORISTS' CLUB.

Thursday, March 12th, twenty-one of us left Lancaster at 4.45 A. M. to visit our brothers in Delaware and Chester counties. At Coatsville we were joined by Jas. Brown of that city, and when we arrived at our first stop S. S. Pennock of Philadelphia, having gotten wind of this trip and appreciating the company, also joined us.

Our first stop was at Brandywine Summit, where E. A. Harvey met us with bob sleighs and gave us a delightful trip through drifts five and six feet in depth on both sides of the road, to his greenhouses. The big new Lord & Burnham house was of course the first attraction, and this house filled with sweet peas of the Spencer type was certainly the finest sight to be seen anywhere right now. They are eight feet high and over, and the cut is averaging 12,000 a day from half the house. They cut half one day and the other the next, so that as we reached there just as they commenced cutting we had 25,000 or over to look at. Beside sweet peas they grow carnations, mignonette, mushrooms and tomatoes. The storm of March 1st froze up a whole lot of carnations. By the 12th the glass had all been replaced and a house of tomatoes started.

At Wm. Swayne's, Kennet Square, we found houses of lupins, larkspurs and ten-week stocks, as well as carnations and snapdragons. I noticed that a great many mental notes were made here by those who sometimes are just a bit undecided as to what to plant. At Mr. Palmer's we found carnations very good, with tomatoes ready to follow them up; the hillside construction here was quite an attraction.

At Willowdale, E. C. Marshall showed us the finest carnations of the section; in fact, they would be hard to surpass in any section. If we could all have flowers and plants as good as they are here, there would be less complaint as to trade, etc. What Chas. B. Herr is to Lancaster Co. that E. C. Marshall is to Chester Co. May their tribe increase.

7.30 P. M. found us back in Lancaster a bit tired, but chuck full of wisdom and pity for the fellow who was not with us.

ALBERT M. HERR.

TEXAS STATE HORTICULTURAL SOCIETY.

The eighth mid-winter meeting of the Texas State Horticultural Society was held in Dallas, Texas, February 19 and 20, in the rooms of the Dallas Chamber of Commerce. This meeting was a very successful one, although the attendance was small, but those present showed that they were greatly interested in the horticultural work in Texas. Thanks are due the Dallas Chamber of Commerce for the many courtesies shown the members while they were in Dallas. The auditorium was turned over to the society for the meeting place.

The members spent the afternoon of February 19th at the Corn Show, they being furnished passes by the Dallas Chamber of Commerce. All of these courtesies were greatly appreciated and in order to show their appreciation, the society sent the secretary of the Chamber of Commerce a vote of thanks.

After the invocation by Mr. John S. Kerr, and the address of welcome by J. R. Babcock, secretary of the Chamber of Commerce, the Society took up the discussion of the subjects on the program. The first was a discussion of plant disease, by Dr. F. H. Blodgett, Plant Pathologist of the Experiment Station. This was a very interesting and instructive talk, dealing with disease of both nursery and orchard trees.

Mr. J. B. Baker of Fort Worth, Texas, discussed the growing of roses for the home. He brought out very clearly the position that roses should occupy in the beautifying of the home grounds. He showed that it was possible to grow roses most any place, provided the soil has been properly prepared.

A very interesting paper was one on Farm Terracing, by Mr. R. B. Pearce, with special reference to the growing of horticultural crops. In this paper the writer showed some very interesting facts. It was evident that by terracing, it is possible to grow horticultural crops on land that otherwise would wash so badly that it would lose large quantities of plant food as well as being cut by the water.

In the absence of Mr. L. N. Dalmont, his paper on "Horticultural Conditions on the Plains," was read by his daughter, Miss Mary Dalmont. This paper showed that the Plains Country has not been lagging in the developing of the horticultural side of agriculture. He showed that the horticultural conditions are much better than they were some time ago.

The grape industry was very ably discussed by Mr. Will B. Munson, of Denison. He stated that viticulture seemed to have taken a new hold in Texas during the past few years. He spoke of varieties for various sections of the state, and also dealt with grape insects. In speaking of insects, he recommended Farmers' Bulletin No. 19, from the Department of Agriculture at Washington, on the Grape Leaf Hopper. Another speaker on viticulture was Prof. Flossfoder, of

Davis, California, on grape growing in that state.

Mr. McGinnis discussed the care of shade trees, and spoke of planting young trees that were well formed instead of planting just any kind of a tree, whether large or small, that may be in most any shape, depending on the way it has been cut. He also warned the owners of trees against the fake tree doctors, that had been doing some work. He spoke of the work that should be done, but said that it should be performed by someone who understood the business.

Prof. Newell told of the life history of the codlin moth, and how it can be controlled. It was brought out in this paper that this insect is very important to the apple growers of Texas. It was stated that the codlin moth probably damages the apple crop of Texas at least one hundred thousand dollars annually. Prof. Newell spoke of the little work that has been done on the codlin moth in this state, which is due to the small funds that the Department of Entomology has.

Mr. D. A. Frank of Dallas, delivered a very interesting paper on the "Value of the Home Garden to the Farm Home." This subject was handled from the standpoint of cutting down the expenses of living on the farm.

After the discussion of these subjects, and the transaction of business, the society adjourned.

STATE FLORISTS OF ILLINOIS AND INDIANA.

The joint meeting of the Illinois State Florists' Association and the Indiana State Florists' Association at Danville, Ill., was a gratifying success in all respects. The exhibition hall was handsomely decorated and there were nearly fifty exhibitors in the various departments. Among the prominent firms represented were the following:

Poehlmann Bros. Co., Chicago: plants, supplies, flowers, etc., general display; highly commended. Frank B. Smith's Sons, Danville: Easter plants, roses, carnations, etc.; highly commended. National Soldiers' Home: palms and decorative plants; highly commended. A. N. Pierson Co., Cromwell, Conn.: new rose Hadley; certificate of merit. E. C. Amling Co., Chicago: sweet peas and other flowers; highly commended. Inland Supply Co., Danville: irrigation machinery, pumps, etc.; highly commended. F. Dorner & Sons Co., Lafayette, Ind.: splendid showing of seedling carnations; certificate of merit to Pink Sensation. Bassett & Washburn: roses and seedling carnations; certificate of merit for Belle Washburn carnation. Wendland & Keimel, Elmhurst: display of roses; highly commended. Mt. Greenwood Cemetery, Chicago: carnation Rosette; highly commended. A. Roper, Tewksbury, Mass.: carnation Alice Coombs. Other carnation exhibitors were W. J. Vesey, Fort Wayne, Ind., Chicago Carnation Co., S. S. Skidelsky & Co., Phila., carnation Philadelphia Pink; Chas. Loveridge, Peoria, also roses and violets; J. F. Ammann Co., Edwardsville, Ill., also roses; A. C. Brown, Springfield, Ill.; Henry Baer, Peoria; W. Anker, Danville, also bulb flowers; C. C. Walker, Danville; Baur & Steinkamp, Indianapolis; Hartje & Elder, Indianapolis; Andrew Peterson, Hoopeston; A. G. Fehr, Belleville. Other rose exhibitors were F. F. Benthey & Co., New Castle, Ind.; W. L. Leiker, Fairmount; E. G. Hill Co., Richmond, Ind. Other exhibitors of various specialties were W. A. Manda, So. Orange, N. J., George Reinberg, Chicago, P. Britz, Danville, Pleasant View Greenhouses, E. Osborne, Vaughan's Seed Store, Chas. Arnold, Des Plaines, A. Washburn & Sons, Bloomington, A. J. Pettit, Indianapolis, M. Rice Co., Philadelphia, Pa., A. A. Arnold Co., Chicago, Detroit Flower Pot Co., H. N. Bruns, Chicago, Carnation Support Co., Wertheimer Bros., Danville Floral Co., Pyfer & Olsen, G. Swenson and Kroeschell Bros.

At the business meeting the following officers were elected by the Illinois Association: President, H. C. Smith, Danville; vice-president, C. W. Johnson, Morgan Park; secretary, J. F. Ammann, Edwardsville; treasurer, F. L. Washburn, Bloomington.

On Wednesday a visit was made to Champaign on invitation of the Danville Florists' Club and the visitors were hospitably entertained. The banquet took place on Tuesday evening, there being about 150 ladies and gentlemen present. A. C. Kohlbrand of Chicago was toastmaster and among the guests was "Uncle" Joe Cannon, who made a most entertaining speech.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

On account of the illness of Alex Cumming, Jr., the Talk on Roses which he was to have given before the Westchester and Fairfield Horticultural Society at Stamford, Conn., on March 13, had to be postponed. Henry F. Michell Co. of Philadelphia have offered their silver and bronze medals for table centrepieces of outdoor flowers and foliage, by assistant gardeners, at the June meeting, probably, which is to be held in association with the Board of Managers of the Portchester Hospital. The fall exhibition will be held in New Rochelle, N. Y.

A long list of offers of cash, cups, etc., was read from various seed houses, nursery firms, and others interested in the welfare of the Society, thus assuring a fine premium list for the fall show. It was decided to let the matter rest until the Executive Committee of the N. A. G. meet early in April, when a more comprehensive proposition will be appreciated by the Society.

There was a beautiful display on the exhibition tables and awards were as follows:

Cultural certificate to Geo. Allen for Darwin tulips, Louis Whitman for Shawyer roses, and W. J. Sealey for Primula obconica; honorable mention to L. Whitman for Ward carnations, A. Bieschke for hybrid freesias, and Carl Hankensen for winter-flowering sweet peas. The following were highly commended: Carl Hankensen for carnations, A. L. Marshall for Cattleya luminosa, and P. W. Popp for Mahernia odorata. Vote of thanks to Paul Dwenger for violets, A. L. Marshall for carnations, and Louis Whitman for Telegraph cucumber.

Next meeting will be held on April 10.

P. W. Popp.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club held its regular monthly meeting March 12th in Odd Fellows' Hall, with 25 members in attendance and Vice-president Jaenicke in the chair. Mr. Jaenicke, as chairman of the pageant committee, made a report, and after a discussion it was decided to withdraw this committee and the support of the club in pageant matters. The trustees reported that the club banquet would be held some time in June at the Jefferson Hotel. After full discussion it was voted that as the local trade showed so little interest regarding the fall show, the club drop this matter at least for this year.

Mr. Jaenicke was down for a lecture on City Gardens, and he thought the attendance should be larger for a lecture of this kind, but consented to give it, and the lecture was full of interest to those present and at the finish was given a hearty vote of thanks. The next meeting will take place April 9th.

A NEW SOCIETY PROJECTED.

A new horticultural society for Hampden county to include the Hampden County Horticultural Society and the Springfield Amateur Horticultural Society and to be affiliated with the Hampden County Improvement League will be formed in a meeting to be held in the mahogany room of the Auditorium at 8 o'clock Wednesday evening, March 25, and it is expected that a thriving organization will be perfected at that time. Since the Hampden Horticultural Society has been practically lifeless for some years and the Springfield Amateur Horticultural Society, which has held some very fine displays of flowers in the Science Museum for two years, needs help and the Hampden County Improvement League is ready to come to their assistance, it was decided last evening in the meeting of the Amateur Horticultural Society to be best to join with the proposed new society and it was voted to do so.

The objects of the new society as stated in the preamble of the constitution are to interest fruit growers, florists, market gardeners and others interested in general horticulture in the exhibition of their products, as such exhibitions tend to encourage the horticultural industry in Hampden county, and to co-operate with and render all possible assistance to the Hampden County Improvement League in its endeavor to disseminate information along horticultural lines.

CLUB AND SOCIETY NOTES.

The Northampton and Holyoke (Mass.) Gardeners' and Florists' Association has appointed a committee, comprising E. J. Canning, John Brown and A. B. Butler, to consider the advisability of holding a flower show.

President Kleinheinz of the Chrysanthemum Society of America announces a meeting of the Chrysanthemum Society of America to be held at the Grand Central Palace, New York, on March 25th at three o'clock P. M. All members attending the show are invited to be present.

Chas. W. Johnson, Secy.

The Southampton (N. Y.) Horti-

cultural Society has selected July 22 and 23 as the dates for their annual flower show. One-half of the net proceeds will be given to the Southampton Hospital. The show committee this year consists of Martin McLoughlin, chairman; William Fitzpatrick, secretary; Frank H. Smith, financial secretary; William McLeod, treasurer; Ulysses G. Ager, James Guilfoyle, Charles E. Frankenback, Charles A. Jaggar and Joseph G. Cassidy.

The fall shows of the American Institute of the City of New York will be held as follows: Dahlia, Sept. 22 to 24; Chrysanthemum, Nov. 4 to 6, 1914. Knight & Struck Co. offer the following special prizes for the Dahlia Show.

For the best single specimen blooms, one each of the following: Mrs. Francis King, Mrs. Thomas W. Barlow, Mrs. Grosvenor, Mrs. Wm. R. Warner, Jr., Mrs. D. C. Blair, Chieftain; 1st prize, $6.00; 2nd, $4.00. For twelve long-stemmed flowers of the Heatherhome Midsummer Giant Cosmos, assorted colors; 1st, $3.00; 2nd, $2.00.

WM. A. EAGLESON,
Secretary, Board of Managers.

At the March meeting of the Connecticut Horticultural Society President Huss announced that the Society would be favored with a lecture, accompanied by stereopticon views, by Theodore Wirth, on the Park System of Minneapolis. This lecture is to be given at Saengerbund Hall, 76 Wells street, at 8 o'clock on the evening of March 20th. President Huss exhibited six handsome cinerarias, also primroses and stocks. Alfred Cebelius exhibited three plants of Ceneraria stellata. Hugo Kuehl showed a vase of snapdragon, the product of seed sown last May, making the plants ten months' old. President Huss requested the secretary to read an article on "The Whys in Plant Disease Control," by J. J. Taubenhaus.

ALFRED DIXON, Secy.

The March meeting of the Nassau County (N. Y.) Horticultural Society was held on Wednesday, the 11th. Mr. Redstone of Hitchings & Co. was a visitor and addressed the meeting. F. Honeyman received 1st prizes for antirrhinums and violets.

At the April meeting Mr. Wilkinson of the New York State Department of Agriculture, will deliver an address on "Home Gardens," after which there will be a "smoker" or social evening. This being the first to be held, it is hoped the members will help the committee of arrangements in every possible manner. The meeting is called for 6 P. M., instead of 7 P. M. as usual. (Members please note.) Exhibits for next meeting will be: 12 narcissus, large trumpet type; 12 early flowering tulips, 1 pot or pan of hyacinths. Next meeting will be held at Pembroke Hall, Glen Cove, on Wednesday evening, April 8th, at 6 P. M.

HARRY JONES, Cor. Secy.

Salesman Fred Lautenschlager reports the sale of one Kroeschell boiler each to Charlie Meier, Henry Meier and A. S. Cerny, of St. Louis, each boiler having a capacity to heat 30,000 square feet of glass.

STOREHOUSE FOR AZALEAS AND IVIES AT BOBBINK & ATKINS.



No plant growing place of any extent can get along today without a serviceable cool storage house such as is shown in the accompanying picture. In fact, we doubt if there is any structure of the kind in any establishment which the owner finds sufficiently large for his needs, especially during busy season. The cool sheds of the Easter plant growers are a fascinating sight just at present with their ranks and tiers of blooming material which has been brought to the exact state of finish and will spend the rest of the days till shipping time in the cool refreshing atmosphere of the retarding house.

FLORISTS AND UNIONS

Editor of HORTICULTURE:

Dear Sir:—In your issue of March 7 you commented editorially on unionizing the florists and expressed the opinion that the union organizers will hardly be welcomed by the profession. I quite agree with you, Mr. Editor; they were never welcomed by any profession. I would like to ask, however, are there not reasons, even among florists, for the employee trying to protect himself from unreasonable conditions? I may here state that, personally, I am opposed to organizations, believing that they are a menace to personal liberty and individuality. Some argue that idealism is an idle dream, and they throw up their hands and fall in with the crowd. I believe we should not give up the fight, but should at least make an attempt at our ideals, even though we may be considered singular for so doing.

But, to return to our subject, I have had some experience of the tyranny of the florist. I was employed by one for a short time, who worked his help from five in the morning until seven and eight at night and, in addition to that, to save the expense of a night man, sat up with fires until 2 o'clock in the morning, there being hardly power enough to keep out frost. I found in conversation with my fellow craftsmen that it was quite a common thing among the trade. The magnificent wages we received was twenty dollars a month and board. Greenhorns and foreigners were in great demand, others being considered too wise. But that, it may be argued, was years ago. Here is a conversation I listened to several months ago: A florist asked another if he knew of a good man he could hire. "What kind of a man do you want?" "Oh, a Dago that I could get for 15 or 20 dollars a month and board." That was in enlightened Boston in the twentieth century. Now, Mr. Editor, an Italian is a man, and if he is not treated as such, do you blame him for organizing to protect himself?

GEORGE F. STEWART.

Medford, Mass.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Professor A. H. Nehrling of the Floricultural Department has made plans for a general enlargement of the work of his department. For some time past it has been found that because of the increased enrollment and the progress that has been made in consequence, the present equipment is entirely inadequate. When the addition to French Hall is completed, it is expected that the original part of the building will be given up entirely to floriculture. A reading room devoted to floricultural subjects will be installed; a room for storage purposes and a work room fitted up with modern equipment will also be provided. Prof. Nehrling is also planning a complete reorganization of the courses, making them more specialized and professional in order to fit the men for practical work. This is in accordance with the example set by the University of Illinois which at its last commencement, granted the first college degree in floriculture ever given in this country.

A seminar for the members of the Senior class has been introduced for the discussion of special problems in advance work. A number of men are intending to take up graduate work if the necessary facilities are provided. It is hoped that more greenhouses will be added in the near future; with the increasing number of regular and short course students, it is essential that the department should have more space for practical work for these students.

CARNATIONS UNDER TWO-YEAR CULTURE

(A Paper by A. L. Dorward, Before the Newport Horticultural Society.)

Mr. President and Gentlemen:

In reading this paper before you tonight, let me state that what I have to say is not founded entirely upon practice, much as I would like to give you real practical information if I had the space at command to experiment. However, I feel very confident in advocating a method which I am sure would be particularly suited to local growers and which might indeed be equally beneficial to inland growers of carnations as well. Although it may be nothing new, yet its rare practice makes it good food for discussion as well as a splendid field for experimental work, and where expense has to be taken into consideration its importance certainly warrants a fair trial.

It is evident that our troubles by present methods of growing are many and varied as well as expensive, all of which are familiar to you. It is my belief that about half the expense is unnecessary, providing the plants are in competent hands and grown in a way I will describe later on.

Faulty Present Methods.

The present method seems to me ill-balanced, inasmuch as the plants are taxed unfairly to produce when in a state of being unestablished. All of you, no doubt, are well aware of the fact that before forcing can or should take place a plant must be well established to obtain the very best results. Can we, I ask you, say this of the carnation at present? I will venture to say that in the majority of cases the plant is only becoming properly established when it begins to get neglected before being thrown out; not until then has the plant found its equilibrium. At this stage it will have little objection to feeding, a practice certainly overdone before this period has been reached, when evil results are in evidence aplenty.

The method I present is not by any means new. I am simply tempted to bring up the matter, as I believe we are approaching a new era in the cultivation of the carnation. The trend of the times at least seems to point this way, but experiments in this direction, namely, in carrying over the plants a second year or more—are few and incomplete. Trusting that you will bear in mind that mistaken notions and unsound theories are often useful, I will proceed to unfold my ideas.

Prerequisites.

As I have already mentioned, I consider a thoroughly established plant to be one of the most important factors in procuring the best results and, with this in view, let us consider first of all the right sort of environment the plants ought to have for a period of two years or more. It is well that the houses should be situated in a good, airy spot; the larger the houses the better, well provided with top and side ventilation. The walls should not be more than 12 to 18 inches high so as to admit plenty of light; solid benches made of cement deep enough to hold 10 to 12 inches of soil and thoroughly drained.

Have good thrifty plants transferred to these benches by the middle of April and proceed to cultivate as you would in the field. So situated, there does seem a possibility of the plants, being able to withstand the summer heat, providing the hose and ventilation are in capable hands. A too humid atmosphere must be guarded against and the soil kept a little on the dry side; in fact, anything conducive to producing a soft growth should be avoided.

Cutting Back.

As to the time the plants ought to be cut back the following spring or early summer, is a matter for the grower to decide, much depending on the plants' condition and his own requirements. For retail or private work, I would prefer a gradual cutting back to that point just between hard and soft wood. Where a full crop is wanted the plants can all be cut back at the same time, leaving sufficient foliage to help root action in starting up again; in fact, general treatment of the carnation would, under this method, be along similar lines to those on which roses are grown today.

When all the plants are cut back to the right length, as much of the top soil as can comfortably be removed without injury to roots should be taken away and new soil added. In using fertilizers in this compost, care should be taken not to overdo it, as a rank soft growth will be the result. Let the soil at all times be evenly and well firmed. Pinching the second year will not be so necessary beyond keeping the plants in shape.

Responsive Varieties.

Some varieties seemingly are better suited to this purpose than others. A. T. Pyfer, of the Chicago Carnation Company, finds the Enchantress family does exceptionally well, as does White Wonder and Gloriosa; Pink Delight he carried over three years with good results, and the best Beacon he ever grew was from two-year-old stock. He reports experiments along this line as being very satisfactory, but he does not mention whether raised or solid benches were used. This question must necessarily be the main factor if this method is to be adopted, and only such beds and houses as I have spoken of would I recommend for this purpose.

It's just possible that the method spoken of can be carried out to a certain degree under a variety of circumstances, all depending on the ability of the grower to cope with the intricacies of environment. Some advantages over the system in vogue might be claimed, aside from the great expense involved in transplanting to and from the field and the refilling of the benches every year. I have found that plants are less liable to the attacks of rust the second year. Split calyxes, I should imagine, would be materially less, fragrance more pronounced, and who knows but what seedlings born from these would produce colors of a more retentive nature, flowers of a better color with longer lasting qualities, longer stems and healthier foliage? My belief is founded on the principle or theory that a certain age is necessary to bring forth the best results.

Stem Rot.

Admitting that a well-established plant is of vital importance, inasmuch as it is rendered less susceptible to disease, and that it is then in condition to give the best results, and notwithstanding all that has been written regarding stem-rot being caused by some disease, I am inclined to think that the trouble is caused in the first place by the check the plant receives in being transferred from the field to the benches. This is admitted to be the most critical time of the plant's life; certain number of cells being deformed give way to decay during some later period of excitement in the plant's growth. In other words, a plant would not succumb to disease if there wasn't some fertile ground for the disease to work upon.

I have found in handling seedlings that the calyxes of some flowers have from five to seven sepals each; ordinarily five is the number. I have found six sepals to hold, without the slightest sign of a split, more petals than are to be found on Enchantress. If this variety had six sepals, it would be hard to beat. So far I have also found the calyx having six sepals constructed similar to the calyx of Rosette. Calyxes like those of Beacon and Enchantress I consider weak-formed and very liable to split.

There are many beautiful shades of color so far produced and there are still many more that are plainly visible in seedlings that are waiting to be fixed to the standard of a commercial type. Private gardeners might take this up and aim to produce a variety which from its delicate color or other peculiarity would appeal more to the personal taste of the employer than to the commercial growers, who are naturally anxious to procure only those colors which they know will be popular with the general flower-buying public.

In conclusion, let me quote Herbert Kaufman, who says that, "Nature's richest treasures are for her most ardent wooer. She lavishes largest on the daring experimenter who surprises her secrets. Brains are the most efficient of all fertilizers. It takes sand plus imagination to succeed to accomplish anything worth while."

ABOUT HYBRID TEA ROSES

George H. Peterson, the rose and peony specialist of Fair Lawn, N. J., spoke before the Massachusetts Horticultural Society on the afternoon of January 17, on "The Hybrid Tea Rose of Today." He began by saying that this is the golden age for the rose lover, a happy condition brought about chiefly by a certain class of roses, the hybrid tea.

Popularity of the Rose.

"From time immemorial," said Mr. Peterson, "the rose has been the favored flower of mankind, and today its hold upon our hearts is stronger than ever. It was not so very long ago that the hybrid tea rose was practically unknown, and in those days, in this country, we could enjoy roses out-or-doors practically only in June, with the exception of the more or less tender teas, which needed much care. With the advent of the hybrid tea, outdoor rose-growing has greatly changed, and now one may have an abundance from June to October. Fortunately, the rose-bug or rose-chafer is not with us after June, and in autumn one can have hybrid tea roses of even finer quality than in June.

"Strictly speaking, the hybrid tea made its advent nearly a half century ago, but of the efforts at that time practically only one variety is left us, viz., La France, a rose which is still favored because of its almost unequalled fragrance. At first, this variety was generally classed as a hybrid perpetual, and some of the Holland growers class it as such even to this day, but there is no question as to the proper class in which it should be placed.

Advent of the Hybrid Tea.

"There seems to have been little done in that way until about twenty years later, when Bennett sent out some varieties, two of which, both blush varieties, Grace Darling and Viscountess Folkestone, are still quite largely grown. In 1891 Lambert & Reiter sent out Kaiserin Augusta Victoria, which to this day in its color has not been surpassed. About fifteen to twenty years ago two European growers took up the development of the hybrid tea in earnest; I refer to Alexander Dickson & Sons in Ireland and J. Pernet-Ducher in France, and up to this time these two firms have probably sent out more new, fine varieties of hybrid teas than all other raisers combined. During the past five or six years, however, McGredy & Son of Ireland have been sending out some uncommonly fine sorts. The hybrid tea rose is particularly strong in the various shades of pink, and of recent years various shades of yellow and red have become abundant, but in white we are less fortunate.

"In any given list there must be some varieties omitted, which succeed in some soils and climates, and in the following abbreviated list I shall endeavor to give only such as are most generally successful under the most varying conditions and covering a wide extent of country.

Pink—Belle Siebrecht, Dean Hole, Jonkheer, J. L. Mock, Killarney, Lady Alice Stanley, Lady Ashtown, La France, Lyon-Rose, Madame Caroline Testout, Madame Jules Grolez, Madame Segond Weber, Marquise de Ganay, My Maryland, Radiance.

Red - Chateau de Clos Vougeot, Etoile de France, General McArthur, Gruss an Teplitz, Laurent Carle, Richmond.

Yellow—Duchess of Wellington, Madame Ravary, Marquise de Sinety, Mrs. Aaron Ward, Mrs. A. R. Waddell, Sunburst.

White and Blush Bessie Brown, Florence Pemberton, Kaiserin Augusta Victoria, Pharisaer, Souvenir du President Carnot, White Killarney.

"In addition to the above, several of the newer varieties will no doubt be found equally desirable as soon as they are thoroughly tested out.

The Forcing Industry.

"We have so far been considering the hybrid tea from an outdoor-growing standpoint, but there is another phase of rosegrowing which, while it appeals to few directly, interests us all more or less, since in this country the commercial growing of roses under glass has become an important industry. While we are considering the Hybrid Tea rose it is at least interesting to know that practically all roses grown commercially under glass today are Hybrid Teas.

The Hybridizers.

"While on this side of the Atlantic less attention has been paid to the raising of new varieties, yet a few very good ones have originated here, and as a rule the hybridizer in America strives for a forcing rose. In this way we have Richmond, originated by Hill of Indiana, who has also given us General McArthur, probably the best all-around red, for outdoor purposes, grown today. Cook of Baltimore must be given credit for sending out both Radiance and My Maryland, both splendid forcing varieties and outdoor roses as well. In fact, I consider Radiance, weighing all its points, one of the very best hybrid teas for the amateur to plant.

Cultural Facts.

"Now the question arises, what shall we do to enjoy the hybrid tea rose continuously during the summer and fall? In the first place, a site for the planting should be selected well away from trees or shrubbery and at least a few feet away from buildings. The bed, for best results, should be well in the open where it will get sun for at least half the day, and yet be somewhat sheltered from the wind of fiercest storms. The bed or beds should have at least fifteen to eighteen inches of good rich soil, well manured, including an application of bone, all of which should be thoroughly mixed through the soil, and not left in layers. Any good garden soil can be made to grow very fine hybrid tea roses, but remember that the rose delights in a rich, moist soil, so if there is some clay in it, so much the better. The careful grower may plant his roses in the fall, but the average planter in New England will find early spring, before deciduous growth begins, the best time; and the earlier this planting is done, the better will be the first crop of blooms which should follow in about two months from time of planting. In order to receive one's plants on time and to get the best, the order should be placed with your grower weeks or even months in advance. In handling the plants after arrival care should be taken to expose the roots to the air as little as possible, i. e., in case of dry, clear weather. Do not crowd and double up the roots into a small hole, but spread them out naturally, and when the roots are covered, tread the ground firmly about each plant with the foot. After setting, the plant should be pruned severely, leaving the canes only from three to six inches long, according to strength, the weaker shoots being pruned closest. If planting is done early, while the ground is stil moist, little or no watering will be required until the plants begin to leaf out. From that time on, however, frequent waterings should

PARTIAL VIEW OF A. N. PIERSON ESTABLISHMENT, CROMWELL, CONN.



Showing Two Rose Houses on South Side. These Houses are 82x600 feet

be given during dry spells of weather, since the rose, as mentioned before, delights in moisture.

"Each new strong shoot will produce usually three or four buds, all of which, except the terminal one, should be pinched off as soon as they can be taken hold of; and if this is done, one can have glorious roses beginning the first June after planting."

Speaking of insects and diseases, Mr. Peterson recommended tobacco water or dust for aphis, white hellebore powder for worms on foliage, hand-picking into a pan of kerosene for rose chafer, sulphide of potassium and Bordeaux mixture for mildew and blackspot and, as a general proposition, eternal vigilance as the price of good roses.

OBITUARY.

Goodwin Braslan.

Goodwin Braslan, son of the late Charles P. Braslan of California, died at his mother's home in this city on March 4, aged 20 years.

John Brenner.

John Brenner, formerly engaged in the retail florist business with a store on Fourteenth street, New York, died suddenly at his home in Whitestone, on March 11.

Mrs. Wallace G. Payne.

Mrs. Payne, wife of Wallace G. Payne, a well-known florist of Pottsville, Pa., passed away at midnight, Saturday, the 14th, after an illness of nearly six weeks, and was buried Wednesday, March 18th, 1914.

Edward Meehan.

Edward Meehan of Philadelphia died on Wednesday night, March 18, following an operation for appendicitis. Mr. Meehan came to Philadelphia from England sixty years ago. He is survived by his widow and three sons. His age was seventy-nine years.

Ernst Mack.

The funeral of Ernst Mack of Price Hill, Cincinnati, O., was held Monday afternoon, March 16. Mr. Mack was a prominent member of the local florist fraternity for nearly a quarter of a century and his death is a distinct loss to the trade.

Mrs. George T. Elliott.

Mrs. Margaret A. Elliott, widow of Geo. T. Elliott, and mother of W. H. Elliott, the well-known rose grower of Brighton, Mass., passed away at New London, Conn., on Sunday, March 15, aged 87 years. Mrs. Elliott was born at Kendell, England, May, 1827. She lived for some time in Wisconsin, where W. H. Elliott was born, and later returned east and settled in New London. At one time she was a member of the S. A. F. and attended several conventions of that society.

PROGRESS OF FLORICULTURE AT URBANA.

(Report made to Illinois State Florists' Association, at Danville, by H. B. Dorner, Professor of Floriculture.)

The work in floriculture has made considerable progress during the past year. The work has been hindered somewhat by the necessity of moving the houses from the west side of the campus to the new location on the east side. This move was made necessary by a change in the campus plans so as to provide a location for the new armory and a drill field.

The move was made during the past summer and the work is now finished except for grading about the buildings. The range as now completed consists of eight houses covering an area of 28,000 square feet. The four houses moved from the old site are of semi-iron construction, while the four new houses, which have been added, are of iron frame construction. In addition to the glass range, a new service building was also constructed. The latter is a two-story building with basement and provides potting rooms, laboratories, storage rooms and offices for the floricultural work.

The first experiments on roses and carnations were completed last year and two circulars are now in process of preparation. It is hoped that these will soon go to press and be ready for distribution at an early date. The delay in publication has been due to the necessity of making a very careful study of the great amount of data collected. Other experiments, approved by your Advisory Committee, are now being carried on and the results will be published in other circulars.

There are now eleven students registered in the four year course in floriculture, who are working for the professional degree of Bachelor of Science in Floriculture. In addition to these there are a number from other departments taking courses offered by this division. There are now registered 73 students in plant propagation, 8 in greenhouse management, 4 in floral decoration and 31 in amateur floriculture. During the past semester 18 took greenhouse construction, 15 garden flowers, 3 commercial crops and 44 amateur floriculture. Last year two students graduated from the division and are now located on commercial places. M. R. Bebb is now in charge of 30,000 square feet of glass in Muskogee, Okla. W. K. Palmer is with the F. Dorner & Sons Co. of Lafayette, Ind. One student will receive his degree this coming June. Mr. A. H. Nehrling, who was formerly associated in the work, left at the end of the past semester to take charge of the floricultural work at Massachusetts Agricultural College at Amherst.

It gives me great pleasure to report that work is progressing nicely, and that Illinois has not only the largest enrollment of students specializing in floriculture, but also the largest and best equipped range of glass for experimental and instructional work.

THE COLLEGE POINT MECCA.

One of the gayest floral pictures we have seen for a long time was the array of Easter plants already in bloom in one of the houses of A. Schultheis at College Point, N. Y., a few days ago. The entire centre bench was occupied by roses—the large flowered hybrids, the Ramblers and tiny polyanthas—a veritable riot of color, and the intermingled perfume of roses, lilacs and other fragrant blooms was simply delicious. Azaleas, genistas, pyruses, daisies and ericas added to the gaiety of the scene.

Mr. Schultheis is going strongly into the new hydrangeas. Some of the most beautiful now blooming in soft or deep tints of blue, violet, purple and pink are Gen. de Vibraye, Radiant, Germania, Bouquet Rose, Frau A. Rosenkranzer, Souv. de Chantard, Mme. Petrick, Saarbrucken Freifrau von Stumm, Eclaireur, Avalanche, Andre Leroy's Blue, Reine Gaillard, Louis Mouillere, Vicomtesse Vibraye, Jaconde, M. Riverain, M. Chantard Florisse and M. Hamard.

Among the roses that are on parade here, and will probably take part in the coming Flower Show are a lot of new Wichuraiana and polyantha hybrids as well as the older favorites. Tansendschoen, Hiawatha, Dorothy Perkins, Crimson Rambler, Flower of Fairfield, Newport Fairy, Mrs. Flight, Baby Dorothy, Mrs. Cutbush, Excelsa are some of the standard sorts that will have to watch their laurels in competition with the new comers.

There is no end of azaleas, some of the most pleasing of the newer ones being Brillianta Belgica, fine deep crimson double; M. Millaud, scarlet red; Lady Roosevelt enchantress pink, semi-double; Ernest Eeckhaute, brilliant deep crimson, small double flowers, fimbriated petals, crowded in compact masses; Etoile de Noel, semi-double crimson; Illustris, double white, occasionally blotched with salmon pink.

The only erica being grown here in quantity for Easter is E. cotinoides Veitchii, but it is very pretty. Queen Alexandra and Peach Blossom take the lead in spiraeas and Pink Pearl is at the very top of the rhododrendron list with no close rival. There are lilies, tulips and hyacinths galore. Schultheis has prepared for a great Easter.

BUSINESS TROUBLES.

Charles Limmer, Schenectady, N. Y., has been petitioned into bankruptcy.

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FICUS Elastica (Rubber Plant), 4-in., 5-in., 5½-in., 6-in., 7-in., 25c, 35c, 40c, 50c, 75c.

ARECA lutescens robusta, 4 in., made up of 3 plants, 25c; 5-in., 35c.

KENTIA Forsteriana and Belmoreana, 5¼-in. pots, made up of 3 plants, 40c, 50c; single, 5½ in.: **Forsteriana** or **Belmoreana,** 40c, 50c, 60c, 75c; **Forsteriana,** 12-in. tubs, 65 to 75 in. high, $4.00 to $5.00.

COCOS Weddelliana, 4-in., 25c; made up, 30c; 3-in., 15c.

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CYRTOMIUM Falcatum (the new brushed Holly Fern). 5½-in., 25c to 35c.

PRIMULA Obconica. In bloom, 4-in., 15c; 5½ in., $3.00 per doz. **PRIMULA Chinensis,** 5½-in., $3.00 per doz.

CINERARIA HYBRIDA. Our best well-known strain, same showing color now, right for Easter; 5-in., 5½-in., 6-in., 25c, 30c, 40c, 50c, 75c to $1.00.

ENGLISH IVY, 3-in., 7c; 4-in., 10c.

FERNS for dishes, Wilsoni only, 2½-in., 4c; 3 in., 6c.

PTERIS Wilsoni. In 6-in. pans, 25c.

HYACINTHS are scarce this Easter, but we put in last fall an immense stock of our own importation, which will make large spikes and cannot be compared with the cheap stuff that is now floating on the market. **Gertrude,** best pink; **La Grandesse,** best white; **King of the Blues,** best dark blue; **Grand Maitre,** best lavender blue. 4-in. pots, staked up, $12.00 for 100 pots. In bloom for Easter week.

TOURNESOL TULIPS, best double red and yellow variegated; **Murillo,** double rose; **Imperator Rubrum,** bright red double; **Couronne d'Or,** double yellow, new, three bulbs planted in a 4-in. pot, $15.00 per 100 pots, $8.00 a doz., in bloom one week before Easter.

DAFFODILS, Von Sion. Best double yellow **NARCISSUS** in existence, three double-nosed bulbs, planted in 5½ to 6-in. pot, $3.00 per doz. pots, out of cold frame, will bloom one to two weeks before Easter.

While we pay the highest price for our Bulbs of Hyacinths, Tulips, etc., from Holland growers, you must bear in mind that we can sell them no cheaper than we do, and we assure you that there is no profit in it for us for the fine stock we sell you.

ASPARAGUS SPRENGERI, 4 in., 10c; 2½ in., 4c.

ASPARAGUS PLUMOSUS NANUS, 3-in., 7c; 2½-in., 4c; 5½-in., 25c. to 35c.

Our specialty, the world wide known pure white **MOONVINE, Ipomoea Noctiflora,** is now ready, 2½-in. pots, $5.00 per 100.

ARAUCARIA Excelsa, 6-in. pots, 4, 5, 6, 7 tiers, 75c, $1.00, $1.25, $1.50.

RHODODENDRONS, 10-in. pans, full of buds, $1.25 to $1.50.

SPIRAEA GLADSTONE in 6 and 7-in. pots, in bud, 30c, 40c, 50c and 75c, right for Easter.

HYDRANGEA OTAKSA, full of foliage, all have buds, just right for Easter sales, 5½, 6 and 7 in. pots, 25c, 30c, 40c, 50c, 75c, $1.00, $1.25 to $1.50. **FRENCH HYDRANGEAS, Mme. Mouillere,** best white, and **Gen. de Vibraye,** bright rose, 30c, 40c and 50c.

BEGONIA GRACILIS LUMINOSA, deep red, in bloom and bud, 5½-in. pots, $3.00 per doz.

BEGONIA ARGENTEA COMPACTA, 4-in. pots, 15c.

NEPHROLEPIS CORDATA COMPACTA, 4-in., 25c.

WE ARE

Headquarters for Azaleas

FOR EASTER BLOOMING



EASTER GREETING!

All the go. The plants of the century. A rival of all Easter plants. For azaleas, go direct to the Azalea belt of Godfrey Aschmann.

Order now. 5 houses full, 10,000 of the choicest plants on hand, ready for immediate shipment. We are the only importers of **AZALEAS,** of which we have made a specialty for the last 25 years. We have the well-known, best double pink **Mme. Van der Cruyssen,** 5½-in., 6-in., 7-in., 8-in. pots, 60c, 75c, $1.00, $1.25, $1.50 to $2.00.

Vervaeneana. Best double rose variegated, large flowering, 5½-in., 6-in., 7-in. pots, 75c, $1.00, $1.25, $1.50 to $2.00; **Niobe** and **Deutsche Perle,** best double white; **Princess of India,** double variegated; **De Schryveriana,** double variegated; **Apollo,** best red; and other well-known varieties, 75c, $1.00, $1.25, $1.50 to $2.00. We have about 100 assorted at 50c, 60c, 75c, $1.00, $1.25 to $1.50.

All goods must travel at purchaser's risk only. No references investigated while the big rush is going on. Thousands of boxes have to be packed in a remarkably short time and only cash will be accepted. Please state if you want stock shipped in or out of pots.

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ROSES BRISTLING WITH BUDS

Flower of Fairfield, Crimson Rambler, Dorothy Perkins, Excelsa, Tausendschoen, Baby Ramblers, and Multiflora Novelties, all sizes, bush, standard and trained, from $1.50 to $10.00 each. Prices in detail on application. Magna Charta, Brunner, Druschki, etc., $9.00 to $24.00 a dozen.

HYDRANGEAS—all the Latest French Novelties

General de Vibraye, Radiant—dark pink, Souv. de Chantard, Mme. Riveraine, Vicomtess de Vibraye, Mont Rose—pink, Bouquet Rose, Hamard, Mme. Mouillere, Avalanche—white, Andre Leroy's Blue, 5½ in., 6 in., 6½ in., 7 in. pots, $1.00 to $3.00 each. Specimens in 10-in pots, $5.00 each.

Otaksa—6½, 7 and 8-inch pots, $1.50, $2.00, $2.50 and $3.00 each.
Bouquet Rose—6 and 6½-inch pots, $1.50, $2.00, $2.50 and $3.00 each. Radiant, Vibraye, Souv. de Chantard 4 and 4½-inch pots, $4.00, $5.00 and $6.00 per doz.

AZALEAS

All sizes and varieties, such as Van der Cruyssen, Empress of India, Sacuntala, Niobe, Schreyveriana, Mme. Jos. Vervaene, Ernst Thiers, Mme. Morreux, Haerensiana, Varonne, Rapheal and Hexe, $6.00, $9.00, $12.00, $18.00, $24.00 per doz. Larger sizes from $3.00 to $10.00 each.
Specimen plants in pyramids and fans, from $4.00 to $10.00 each.

For filling Firefly and Chas. Encke, $4.00, $5.00, $6.00, $9.00 and $12.00 a doz.

Rhododendrons—7, 8, 9, 10 and 11-inch pots and pans, $1.50, $2.00, $3.00 to $8.00 each.

Spirea—Gladston, Queen Alexandra, Peach Blossom, 6½, 7 and 8-inch pots, 50c., 75c. and $1.00 each.

BOUGAINVILLEAS, TULIPS, HYACINTHS, DAFFODILS, DAISIES, LILIES, GENISTAS, GARDENIAS, ERICAS, ETC. ALL HIGH-CLASS STOCK.

ANTON SCHULTHEIS

316 19th STREET, COLLEGE POINT, QUEENSBOROUGH, N. Y.

A REVIEW OF THE CRAIG EASTER SHOW.

Perhaps the most striking feature of the Craig Easter offerings for 1914 are the hydrangeas. There are many houses devoted to these exclusively and they are exceedingly promising and well grown. The standbys, like Thomas Hogg and Otaksa, are well to the fore, of course, but what makes the Craig display so unique is the magnificent showing of the new French varieties. These have proved valuable additions, giving greater variety in color, form and character to this favorite old Easter plant.

Next come the roses: the Ramblers in all their fine array of variety, form and color, also in all sizes from little ones to big specimens, and a lot of the trained creations in fancy forms, globes, pyramids, circles, etc. All these are well done and promising, and a couple of weeks from this writing (March 17th) will be in perfection. There are also a nice lot of hybrids, such as Magna Charta, which are always in demand at this time.

We have never seen the rhododendrons look better; they are exceptionally well budded and the plants are very shapely and well furnished with foliage. One of the fine things about a rhododendron as an Easter plant is that it can be used in the garden after having done duty as an Easter offering. This point should never be forgotten by retailers when talking to their customers about their selections. The favorite azalea is no use in that connection.

Several houses are devoted to our old friend Genista fragrans, and mostly in the smaller sizes, not because they cannot be grown to big specimens but on account of the large demand for the smaller plant for basket work for which they are very suitable. Spireas look fine; nearly all of them the magnificent variety, Gladstone. There is a house of marguerites, the old-fashioned well-known white daisy, Chrysanthemum frutescens. This is in small to medium sizes and, like the genista, is in large demand for baskets, etc. Beautiful stock—a pleasure to look at.

We saw nothing of the Easter lilies, which seems strange in an Easter plant display; but it was explained that these were all at the Norwood establishment. We have young Robert's word for it that they are the finest ever. Foliage plants and ferns in great variety, comment on which, however (no matter how good they be and interesting), is not germane to this little story. G. C. W.

NEWS NOTES.

Beverly Farms, Mass.—John L. Chapman, gardener on the Spaulding estate has leased the greenhouses and will run them for commercial use.

Newburgh, N. Y.—Among the sufferers in the recent heavy snowfall was Wesley Wait, whose greenhouses were badly wrecked by falling telegraph poles.

Bordentown, N. J.—The recent heavy snowfall caused a portion of the greenhouse owned by William Jobes, which is leased by Frank K. Bennett, to collapse, entailing a loss of several hundred dollars' worth of flowers.

Easter Plants Standard Quality

AZALEAS—.50, .75, $1.00 up to $4.50.

ACACIA ARMATA—$2.00, $2.50, $3.00.

RAMBLER ROSES—Tausendschoen, $2.00 and $2.50 each. Dorothy Perkins and Hiawatha, $1.50 to $2.00 each.

LILACS—Marie Legraye, $1.50 each.

SPIRAEAS—Gladstone and Queen Alexandra, .50 and .75 each.

TULIPS—Murillo, Couronne d'Or, Cardinal, Rose Grisdelin, Rose Luisante, 12 bulbs to pan, .50 per pan.

LILIES—Giganteums, .12 per bud and bloom.

WM. A. RIGGS, Auburndale, Mass.

Craig Quality Easter Plants

WERE never in better shape than now. The Roses, Hydrangeas, Lilies, Genistas, Valley, Daisies, Spiraeas, Rhododendrons and Azaleas, have all been timed to the minute. They are being grown cool and will require no extra heat to bring them into flower in good time. This means that Craig quality plants will be durable with you and with your customers. We would like you to come and see them, but if that is impossible, we would like you to reserve a good sized space in your place for them. Our catalogue is now ready; please send for it. We quote a few prices below.

LILIES

Our stock of this grand Easter plant is exceptionally fine this year and having 25,000 plants, we can positively please the most critical buyer. Plants with from 4 to 10 flowers, 12c. per bloom. Made up pans, from 15 to 25 flowers, 12c. per bloom. Plants with less than 4 flowers, 15c. per bloom. Cut lilies, medium, $12 per 100 blooms. **All plants have been grown moderately cool.**

RHODODENDRONS

Our stock is large, the plants being well budded and shapely, including all the best varieties in all colors. Prices, $1.50, $2.00, $2.50, $3.00, $3.50 and $4.00 each. Very large plants, $5.00, $6.00 and $7.50 each.

HYDRANGEAS

We have the largest and finest stock of Hydrangeas ever offered to the trade at Easter, having 7,500 perfect plants. Our stock includes over 6,000 of the new French varieties, all of which have proven so valuable to the retailer. The plants have all been grown cool and are well hardened off, insuring satisfaction to the buyer. Hydrangea Otaksa, 6 inch, $6.00, $9.00, $12.00, $15.00 and $18.00 per doz.; 7 inch and 8 inch, $2.00, $2.50, $3.00, $3.50 and $4.00 each. Specimens, $5.00, $6.00 and $7.50 each.

All of the following varieties have been tested by us under ordinary conditions as to their adaptability to forcing for Easter. All have proven themselves to be valuable additions.

Bouquet Rose, bright pink; Gene de Vibraye, bright rose; La Lorraine, bright pink; Mme. a Riveram, bright rose; Mme. E. Mouillere, best white; Mme. Maurice Hamar, bright pink; Mme. Renee Gaillard, large white; Souv. de Mme. E. Chantard, bright rose; Radiant, bright pink; Baby Bimbinet; Mont Rose, 6 inch and 7 inch pots, from 3 to 15 flowers, $6.00, $9.00, $12.00, $15.00, $18.00, $24.00, $30.00 and $36.00 per doz

April delivery, strong stock of the above varieties, 2½ inch pots, except where noted, $8.00 per 100, $75.00 per 1000.

EASTER ROSES

We desire to make special mention of our large stock of roses, growing upwards of 10,000 plants in the leading varieties. We have no hesitation in saying we are the largest growers of forcing roses for Easter in America. We are positive our stock will please the most critical buyers as the quality was never better. It has all been grown cool and will prove very satisfactory.

Baby Ramblers—All the choice and popular varieties in the polyantha class, 5 and 6 inch pots, $6.00 to $9.00 a dozen.

Half Standard Baby Ramblers—Orleans, Pres. Taft, Phyllis, etc., exceptionally fine plants, 3 foot stems, $1.25, $1.50 and $2.00 each.

Hybrid Roses—Magna Charta, etc., $9.00 to $18.00 per doz.

Trained Specimens—All the Ramblers, Lady Gay, Hiawatha, Dorothy Perkins, Tausendschoen, Excelsa, splendid plants in 6, 7, 8 in. pots, at prices ranging from $1.25 to $7.50 each.

SPIRAEAS

Spiraea Gladstone—Our stock is in superb condition, 6 inch pots, very heavy, $6.00 per doz., $45.00 per 100. 7 inch pots, very heavy, $9.00 per doz. 8 inch tubs, very heavy, made up, $12.00 per doz. 10 inch and 11 inch tubs, very heavy, made up, $18.00 and $24.00 per doz.

Spiraea Queen Alexandra—6 inch and 7 inch pots, very heavy, 75c. and $1.00 each.

MISCELLANEOUS

Genistas—Fine stock for basket work in the smaller sizes, from 3 inch pots, at $15.00 per 100 up to large plants at $1.00 to $3.00 each.

Daisies—Yellow and white, well-flowered plants, $4.00 to $9.00 per doz.

Azaleas—Lots of them in the accepted Easter favorites, 75c. up.

Crotons, Dracaenas, Ferns, Palms, Ficus.

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Carters New . . . .
Spring Catalogue
"Garden & Lawn"
is Now Ready . .

HOW TO JUDGE NOVELTIE

Another Int

In last week's issue of "Horticulture" we placed on record some evidence our friends that we have not neglected the wider field of the Vegetable

Peas alone deserve a special notice, and we place on record here some

The cult of the edible Pea is a remarkable phase in the development o noisseur in this dish more fastidious, and in no country is this gratified t ual introduction of new varieties with enhanced qualities has stimulated our efforts in producing new varieties of finer qualities and covering a wi be affectation on our part to deny that it is a pleasure to find our name h tries and colonies, but also in those foreign countries where the taste for c Telephone, Carter's Stratagem, etc., which we mention as illustrations.

The following list of our own introductions is, we venture to say, a stands at the present time without a rival as the quickest maturing and e Giant, supplying the table with dainty Peas until late in the autumn. manner of soils, seasons and garden situations for the Market and for E among Peas, stimulating the efforts of would-be, but albeit unsuccessful, r gratitude, of those hundreds of Exhibitors who annually gain coveted di

FIRST EARLY ROUND SEEDED

EXPRESS GIANT BLUE (Carter), 4 ft. Parents Express and Early Morn; pods twice the size of the original Express. Good for very early work
Price 3/6 per quart; 2/- per pint.

EIGHT WEEKS (Carter), 1¼ ft. The earliest Dwarf variety. The best for forcing.
Price 3/6 per quart; 2/- per pint.

FIRST CROP (Carter), 3 ft. A hardy First Early. Price 1/6 per quart.

LIGHTNING (Carter), 3 ft. Earliest Round White seeded Pea; very prolific.
Price 3/- per quart; 1/9 per pint.

LIGHTNING NEW GIANT (Carter), 4 ft. Parents Lightning and Early Morn; pods twice the size of Lightning and equally early.
Price 3/6 per quart; 2/- per pint.

WILLIAM THE FIRST SELECTED (Carter), 3 ft. Hardy; almost as early as First Crop, with larger pods. Price 2/- per quart.

FIRST EARLY WRINKLED

ADVANCEMENT (Carter), 1 ft. Parents Daisy and American Wonder; fine large pods; early as American Wonder. Price 2/6 per quart; 1/6 per pint.

DAFFODIL (Carter), 1½ ft. Very prolific; long deep green pods; much superior to British Wonder class. Price 3/6 per quart; 2/- per pint.

DAYLIGHT (Carter), 3 ft. A large-podded Marrow; early as Lightning; pale pods.
Price 3/6 per quart; 2/- per pint.

EARLY DAISY (Carter), 1½ ft. An earlier type of the well-known Daisy; very prolific.
Price 3/6 per quart; 2/- per pint.

EARLY DUKE (Carter), 3 ft. Award of Merit R. H. S. Parents Blue Express and Duke of Albany; very productive; deep green pods.
Price 3/6 per pint; 2/- per half-pint.

EARLY MORN (Carter), 3 ft. The best First Early; deep green Exhibition pods; grand Pea for garden or market. Price 3/6 per quart; 2/- per pint.

KING OF THE EARLIES (Carter), 1 ft. An early type of Daisy; prolific; suitable for borders. Price 3/- per quart; 1/9 per pint.

F

MAYFLOWER (Carter), 1½ ft. Paren
First Early; large pods; remarl

SNOWDROP (Carter), 4 ft. Award of

SPRINGTIDE (Carter), 3 ft. A grea
pointed pods.

SECOND E

DAISY (Carter), 1½ ft. A grand crop
Pea grown.

DAWN (Carter), 4½ ft. Certificated R

DELICATESSE (Carter), 3 ft. Very
dance of the sweetest Peas.

INTERNATIONAL (Carter), 5 ft. A
Duke of Albany. A large curve

MARKET GARDENER (Carter), 5 ft.
green pods; curved; excellent f

TORPEDO (Carter), 4 ft. An early
variety.

MAINCROP

BUTTERCUP (Carter), 2 ft. A hardy
strong grower.

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aisy very prolific; not liable to mildew;
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BATTLESHIP (Carter), 5½ ft. Large, blunt, deep green pods; good for garden or exhibition. Price 3/6 per quart; 2/- per pint.

COMMONWEALTH (Carter), 2 ft. A grand selection from Stratagem; very prolific; bearing extra fine show pods. Price 3/6 per quart; 2/- per pint.

DREADNOUGHT (Carter), 3 ft. One of the largest podded late Maincrop; a splendid variety for show, table or market; a grand Pea. Price 3/6 per quart; 2/- per pint.

EXHIBITION (Carter), 4½ ft. A fine exhibition Pea; pods large and handsome, of telephone type; but deep green color. Price 3/6 per quart; 2/- per pint.

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STRATAGEM (Carter), 2 ft. Large dark pods; fit for exhibition or market; hardy and prolific. Price 2/6 per quart; 1/6 per pint.

TELEPHONE (Carter), 5 ft. Large attractive pods; prolific; particularly suitable for light soils. Price 2/- per quart; 1/3 per pint.

LATE WRINKLED SEEDED

ANTICIPATION (Carter), 3 ft. An excellent late Pea for light soils; large pods; very prolific. Price 3/6 per quart; 2/- per pint.

LATEST GIANT (Carter), 4 ft. Parents Gladstone and Exhibition; bearing handsome, well-filled, deep, colored pods; fit alike for exhibitions and the market. Price 3/6 per quart; 2/- per pint.

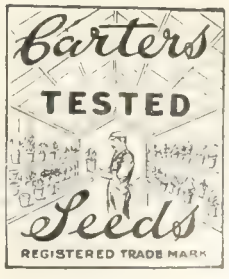
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Mail Order and Counter Trade.

Mail order business is said to be coming in good volume again which indicates that the users of seeds still believe in the promise that seed time and harvest shall not fail. This shows good judgment on the part of the buyers. Those who depend largely on counter trade report that orders are coming quite up to average, but, of course, there will be no improvement in counter trade until there are more noticeable signs of spring. When warm weather does smile on us again, there will not be hours enough in the day to take care of the business that is likely to swamp the majority of retail seed houses.

San Francisco's Outlook for Canners' Convention.

We reported some few weeks since that the three associations comprising the annual canners' convention were taking a referendum vote of their members as to their choice for the place for holding the next annual convention. We are informed that the great majority of canners favor San Francisco, above any other individual town, but it is said that the Pacific Coast is in a minority when the vote for other towns is combined, and so far as the Machinery and Supplies Association are concerned, while San Francisco is said to lead as a first choice there are one or two others which lead when first and second choices are combined. The Brokers' Association we learn are pulling strongly for Frisco. The responsible officers of the three associations, according to information which has reached us, do not believe that it is practicable to go all the way to the Pacific Coast; but the pressure from their members may compel them to go there against their judgment. Many of those who have signified that San Francisco is their first choice, have at the same time stated that they will be unable to attend a convention held there personally. It does not seem to be a fair way to vote on this proposition and only those who expect to attend should vote for any town. It will doubtless be some weeks yet before the matter is definitely settled.

If the convention does not go to the Pacific Coast, it naturally should go to some place in the Middle West, but the difficulty of finding a town with a hall large enough for the Machinery and Supplies Association, which has hotel facilities sufficient to accommodate the crowd, is proving a hard nut to crack.

Surplus Peas.

There are no signs as yet that the congestion and the great pressure of the surplus peas in the country is being materially reduced, and great efforts are being made by both canners and seedmen to find a market for their surplus; where everybody has all they want of an item, it is difficult to induce them to take more, consequently those who are burdened with more than their usual requirements will probably have to carry the stock over into another year.

Free Seeds Again.

Congress has again voted for the annual free seed distribution, despite the attitude of the Secretary of Agriculture, who is known to be opposed. While many of the Congressmen and Senators resented the term "graft" as applied to this annual free seed distribution, many are so thick-skinned that it does not worry them in the slightest degree. We fail to see why the sending of seeds by Congressmen to their constituents is not in a sense at least buying the electorate. It looks as though those who favor this useless expenditure do so because it helps their political fortunes. They do not care especially about the farmer excepting his vote, and if custom had sanctioned the sending out of any other class of merchandise with the same end in view, they would undoubtedly favor that just as they do the free distribution of seeds. It looks as if the trade may as well accept the situation with the best grace possible, as there is no indication that Congressmen who are the beneficiaries of the System will relinquish any of their privileges.

Notes.

Portland, Me.—E. L. Thompson has opened a new seed store at 21 Free street.

The South Carolina Legislature has adjourned without taking action on the seed bill, which was vigorously opposed by the seedsmen.

St. Louis, Mo., March 17.—At least two persons were killed, 15 buried under debris and 10 injured when the west wall of the Missouri Athletic Club building, which was destroyed by a fire in which 30 persons lost their lives a week ago, collapsed under a high wind today and crashed through a four-story building occupied by the St. Louis Seed Company. The four-story building occupied by the St. Louis Seed Company had weakened, apparently, during the burning of the Missouri Athletic Club building, which adjoined it on the east, and when the brick wall crashed on the roof of the four-story building, the walls of the latter gave way and all above the second floor crumpled.



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A Glorified Aster

White	.50	3.00
Pink	.50	3.00
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Mixed	.50	3.00

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Dept. Q. 518 Market St., Phila., Pa.

PERSONAL.

Alexander Proctor has taken the position of gardener for Mr. W. J. Tully, at Locust Valley, N. Y.

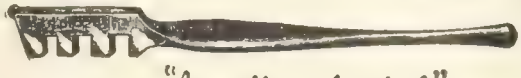
G. Krosschell, Sassenheim, Holland, who has been on his annual visit to the United States, sailed on the Mauretania, March 17.

Philip Hansling, formerly superintendent of the street department of Hartford, Conn., has purchased the nursery business of C. H. Sierman, Park street.

Prof. H. C. Irish, who spent the winter at Ames, Iowa, as instructor of botany at the Ames College, is back again and has accepted a position with the school board of education as supervisor of the City School Gardens in St. Louis.

Mt. Holly, N. J.—Frank K. Bennett's greenhouse, on Burlington street, was badly damaged by the weight of the snow last week. One section of it collapsed, killing several hundred dollars' worth of young flowers which he was forcing for Easter. John Clair also lost some stock in his greenhouses, through the breaking of the glass.

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America's greatest trial grounds, must pass judgment and place the Stamp of Approval on all varieties of seed offered for sale even before they are packed.

Florists and Market Gardeners

should write for our BLUE LIST. This is our **Wholesale Price List for those who plant for profit.** The Business of Market Growing does not warrant the use of seeds of unknown quality any more than the use of haphazard methods.
We will gladly mail both our ANNUAL, which is a descriptive catalog, and our BLUE LIST, which contains the right prices for florists and market gardeners. Our Blue List contains the whole list of desirable florists' seeds.

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At Fordhook Farms (in Pennsylvania), Sunnybrook Farm (in New Jersey), and our Floradale Farm (in California) we are growing acres of flower seeds, especially those varieties that do best in the different localities. Other flower seeds are produced on contract by careful growers both at home and abroad,—subject to personal inspection.
The same care is used in testing and proving the excellence of our flower seeds that has made Burpee's vegetable seeds famous. Superior quality cannot be secured from any source.

Write to-day — "Lest you forget" A postcard will bring both these books

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(Renowned for Sweet Peas)

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FRESH CUT ILLINOIS

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Dwarf. Blue and white, 30c. per oz.

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Branching. Separate colors, 80c. per oz.; mixed, 65c. per oz.
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KING HUMBERT, $1.75 per 100; $15.00 per 1000

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THE FIVE LEADING CANNAS IN THEIR RESPECTIVE COLORS

THE BEST BRONZE CANNA KING HUMBERT. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.

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ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16 00 per 1000.
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We consider this new rose—a sport from the original pink Killarney—the most valuable rose that has been introduced in many years. It is well named Killarney Brilliant, on account of its brilliant color.

It is a great improvement on the original pink Killarney; first, because of its much more brilliant color, it being almost crimson in bright weather, while in midwinter—in dull, cloudy and foggy weather,—when the original pink Killarney loses its brilliancy and becomes badly faded, Killarney Brilliant is as bright and deep a pink as the original variety at its best. In addition to its great superiority in color, the flower is almost twice as large, having from twenty-five to forty full sized petals.

It has the same desirable color that Killarney Queen possesses, but has double the number of petals, making it a very double and a fuller flower; is also very much more productive, having same habit of growth and same freedom of bloom as its parent.

We have watched Killarney Brilliant growing during the past Winter, planted in the same house with the original and the double pink Killarney, and when those varieties faded so as to be almost unmarketable, Killarney Brilliant was superb. We are thoroughly convinced that it will immediately supplant the original Killarney as the standard market variety, and that every up-to-date grower will be compelled to plant it, on account of its great superiority. A prominent rose grower, who has seen it growing, says it is the only rose he has ever seen that needs no advertising; it sells itself.

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Six-Petaled Japanese Iris

No. Order by name or number.

4. **Yomo-no-umi.** A fine free-flowering early double white.
5. **Koki-no-iro.** Rich royal purple with white veinings.
9. **Oniga-shima.** Rich purple with many white veins.
10. **Shiga-no-ura-nami.** Violet-purple, veined with white.
22. **Sano-watashi.** White, with canary-yellow centre.
24. **Gosetsu-mai.** White veined and traced throughout with aniline-blue.
25. **Senjo-no-hora.** Beautifully mottled deep purple and white.
26. **Uchiu.** Bright purple with crimson sheen.
28. **Tsurugi-no-mai.** Rich, deep purple.
29. **Rish-no-toma.** Silvery white, densely veined and minutely dotted with violet blue.
44. **Yoshimo.** Creamy-white, delicately veined with purple.
47. **Renjo-no-toma.** Petals peculiarly fluted, light violet, with white halo and light veinings.
53. **Samidare.** Silvery white, suffused throughout with rich ultramarine blue.
60. **Kagaribi.** Ground color white beautifully traced and marbled with ultramarine blue.
69. **Waku-hotei.** Pure white veined with purple.
74. **Renkaku.** White, densely marbled and spotted with bright violet-purple.
94. **Komochi-guma.** Rich, velvety pansy-violet.
107. **Tokyo.** The finest pure double white.
108. **Shimosa.** White ground, minutely and densely spotted throughout with bright violet purple.
109. **Hosokawa.** Royal purple with white veinings.

Price: Any of the above. 15 cts. each; $1.25 per doz.; $8.00 per 100; $70.00 per 1000. The set of 20 sorts for $2.00.

Three Petaled Japanese Iris

No. Order by name or number.

11. **Hano-no-nishiki.** Bright violet-purple, veined with white.
12. **Shippo.** Light lilac, densely veined with purple.
14. **Shishi-ikari.** Light ground color, veined and mottled with dark violet-purple.
18. **Meiran.** White, densely marbled and veined with light violet.
23. **Yedo-Kagami.** Magenta-lilac, veined with white.
33. **Kakujakuro.** White ground, marked with violet-blue in such a manner that makes it appear as though the color was dusted on.
43. **Shi-un-ryo.** Grayish-white, deeply and densely veined and suffused with violet.
55. **Schuchiukwa.** A showy variety, crimson-purple with white veins and white halo.
62. **Misutmoshito.** Violet-purple, marbled with purple.
67. **Kigan-no-misao.** A late flowering pure white.
73. **Shirataki.** Silvery-white, border of petals suffused with light Parma-violet.
77. **Yayaura.** White, occasionally marbled with light violet.
82. **Ari-Ake.** Violet-purple, marbled with white.
85. **Ojochin.** Light violet-purple, the larger veins white.
86. **Sei-o-bo.** Large pure white, with faint violet-purple markings.
96. **Tebotan.** White ground, with prominent violet-blue veining.
97. **Shiro-fungen.** Light ground, suffused throughout with bluish-violet.
100. **Yomo-zakuru.** Light ground color, densely veined and suffused reddish-purple.
102. **Shi-no-maki.** Rich royal purple.
106. **Sakata.** Light violet or lavender blue.

Price: Any of the above. 15 cts. each; $1.25 per doz.; $8.00 per 100; $70.00 per 1000. Set of 20 sorts for $2.00.

Extra Choice Mixed Varieties. $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

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The Above Prices Are Intended for the Trade Only.

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THERE'S a lot to know about cannas. Their popularity is increasing tremendously. They are one of the big sellers. This Canna Book of ours gives you in a short space a lot of facts that ought to help you increase your sales.

Its color chart you surely can't afford to be without. Everything in the book is endorsed by Antoine Wintzer, and you know what that means. Send for the book. But that isn't all—send along your orders. No matter whether other cannas on the market are grown in the North, South, East or West—none of them can surpass ours in quality and size.

They are superior stock in every way and are worth every cent we ask for them. Run over this list and mail your order.

SWASTIKA CANNAS

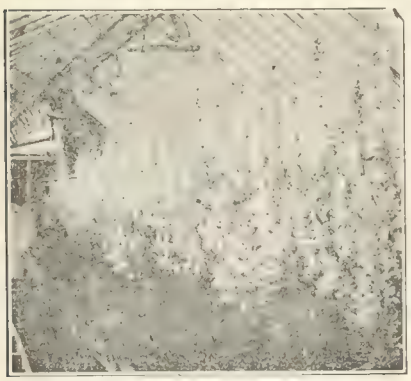
	10	100	1000
Allemania	$0.40	$3.00	$25.00
Alphonse Bouvier	.40	3.00	25.00
Alsace	.30	2.00	15.00
Austria	.50	4.00	25.00
Beacon	.25	6.00	50.00
Betsy Ross	1.00	7.50	
Black Beauty	.75	5.00	
Black Beauty Imp.	.50	4.00	35.00
Black Prince	.35	2.50	20.00
Black Warrior	.30	2.00	15.00
Blanche Wintzer Each $2.00		15.00	
Brandywine	.40	3.00	25.00
Brilliant	.45	3.50	30.00
Burbank	.30	2.00	15.00
Buttercup	.75	6.00	50.00
California	.45	3.50	30.00
Chameleon	1.00	7.50	
Charles Henderson	.40	3.00	25.00
Chautauqua	.40	3.00	25.00
Cherokee	.35	2.50	20.00
Chicago	Price on request		
Cloth of Gold	1.00	7.50	
Comte de Bouchard	.35	2.50	20.00
Comte de Sachs	.40	3.00	25.00
Conowingo	.60	4.50	40.00
Coronet Improved	.75	5.00	
David Harum	.50	3.00	
Director Holtze	.40	3.00	25.00
Dr. Nansen	.35	2.50	20.00
Duke of Marlborough	.35	2.50	20.00
Duke of York	1.00	7.50	
Eastern Beauty	.35	2.50	20.00
Egandale	.35	2.50	20.00
Eldorado	.35	2.50	20.00
Elizabeth Hoss	.30	2.00	15.00
Evolution	.35	2.50	20.00
Express	$0.35	$2.50	
Fire Bird Each $1.00.			
Florence Vaughan	.35	2.50	20.00
George Washington	.35	2.50	20.00
Gladiator	.45	3.50	30.00
Gladioflora	1.50	8.00	75.00
Gustav Gumpper	1.50	10.00	
Halley's Comet	1.50	8.00	75.00
Hiawatha	.50	4.00	
Hungaria	1.50	10.00	
Indiana	.40	3.00	25.00
Italia	.35	2.50	20.00
J. D. Eisele	.40	3.00	
Jean Tissot	Price on request		
Jennie Walls Fahnline	6.00	50.00	
Juanita	2.50	20.00	
Jupiter	.45	3.50	30.00
Kate F. Deemer	4.00	25.00	
King Humbert	.65	4.00	35.00
Long Branch	Price on request		
Lorraine Improved	1.50	8.00	
Louise	.30	2.00	15.00
Louisiana	.40	3.00	25.00
Loviiness	.50	4.00	35.00
Luray	.35	2.50	20.00
Madame Crozy	.40	3.00	25.00
Mlle. Berat	.40	3.00	
Maid of Orleans Each $0.75	6.00	40.00	
Martha Washington	.35	2.50	20.00
Mephisto	.50	4.00	
Meteor (Wintzer's)	3.00	20.00	175.00
Minnehaha	.45	3.50	30.00
Mont Blanc Imp	.65	4.00	30.00
Mount Etna	.35	2.50	20.00
Mrs. Alfred F. Conard	2.50	12.00	100.00
Mrs. Carl Kelsey	.65	5.00	40.00
Mrs. George Strohlein	$0.30	$2.00	$15.00
Mrs. Kate Gray	.50	4.00	25.00
Musafolia	Price on request		
New York	.45	3.50	30.00
Niagara	.45	3.50	30.00
Olympic Each $0.75	6.00	50.00	
Panama Each $0.75	6.00	50.00	
Patrie	.35	2.50	20.00
Pennsylvania	.60	5.00	
Pfitzer's Meteor	Price on request		
Philadelphia	.35	2.50	20.00
Pillar of Fire	.35	2.50	20.00
President Cleveland	.50	3.00	
President McKinley	.50	3.00	
President Meyer	Price on request		
Queen Charlotte	.40	3.00	25.00
Queen of Holland	Price on request		
Richard Wallace	2.00	16.00	
Robusta			
Rosea Gigantea	1.00	5.00	40.00
Sam Trelease Imp. Each $1.00			
Shenandoah	.40	3.00	
Souv. d'Antoine Crozy	.50	4.00	
Splendor	3.00	20.00	
Striped Beauty	1.00	7.50	
Triumph	.35	2.50	20.00
Uncle Sam	.45	3.50	30.00
Undine	3.00	20.00	
Venus	.50	4.00	25.00
Wabash	3.00	20.00	150.00
Wawa	.65	5.00	40.00
West Grove	.35	2.50	20.00
Wintzer's Colossal Each $3.00			
Wm. Saunders	.65	5.00	40.00
Wyoming	.35	2.50	20.00
Zenith	.90	7.00	50.00

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Swastika Brand Cannas

WEST GROVE, PENN.

SILVER PINK SNAPDRAGON



The accompanying cut shows a bench of our famous Silver Pink Snapdragon from seed, growing on our place last Memorial. It is a beautiful color and the

MOST PRODUCTIVE

variety in existence. A lot of fine plants, that will flower from Memorial throughout the summer, now ready at only .$3.00 per 100; 200 for $5.00; $20.00 per 1,000.

It is also a great bedding variety. Seed should be sown at once. Price, $1.00 per pkt.; 3 for $2.50; 7 for $5.00. Free cultural directions. All orders cash.

Remember—the MOST PRODUCTIVE variety in existence, and **productiveness** spells **profit.**

G. S. RAMSBURG, - Somersworth, N. H.

POITEVINE, DOYLE, RICARD and others, $18.00 per 1000.

ASPARAGUS SPRENGERI, 2¼ in. pots, $2.50 per 100; 3 in., $4.00.

ASPARAGUS PLUMOSUS, 3 in., $5.00 per 100.

FUCHSIAS, 2¼ in., $2.00 per 100.

DRACAENAS, 3 in., $4.00 per 100.

HELIOTROPE, 2¼ in. pots, $1.75 per 100; $15.00 per 1000, in fine condition.

J. E. FELTHOUSEN

154 Van Vranken Ave., Schenectady, N. Y.

Mention HORTICULTURE when writing

The New Sargent Rose

Stock Limited, $1.50 each.

Also Lady Duncan, Dawson, Daybreak, Farquhar, Wm. Egan and Minnie Dawson.

Write for prices.

EASTERN NURSERIES, Jamaica Plain, Mass.

HENRY S. DAWSON, Manager.

In writing to Advertisers kindly mention Horticulture

The One Most Desirable DAHLIA For Cut Flower

DELICE

A soft, but lively pink color which appeals to everyone. Habit of growth perfect, with long, wiry and stiff stems which hold the flowers erect without the slightest inclination towards a weak neck. Very free flowering and of most desirable decorative form.

DELICE has always been scarce, the supply never equaling the demand, but we have made special efforts to produce a large stock and this is the first Spring that we have been in a position to offer it in dormant, undivided field grown roots.

Price, $2.00 per dozen; $15.00 per 100; $140.00 per 1000.

For the most complete list of Dahlias ever offered send for our SPECIAL DAHLIA CATALOGUE.

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HENRY A. DREER, Inc.

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DELICE

De Graaff Bros. Ltd.

Leiden, Holland

Daffodils
Early Tulips
Darwin Tulips
Mayflowering Tulips
Iris
Gladiolus, etc.

Catalogue free on application

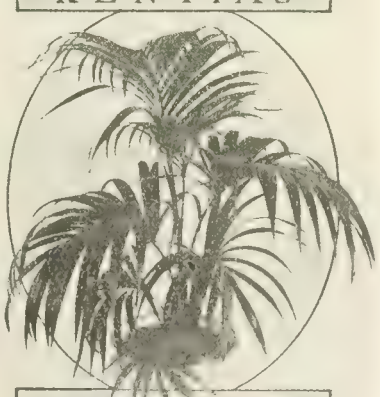
For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.

389 RIVER ST., CHICAGO.

HEACOCK'S KENTIAS



JOSEPH HEACOCK COMPANY
WYNCOTE, PA.

DRACAENA CANES

OF PROVEN QUALITY

Orders booked for importations of Terminalis, Fragrans, Massangeana, Lindeni, Amabilis, Baptisti, Shepherdi, Youngii, Lord Wolseley, Marguerite Story, Guilfoylei, Gladstonei, Imperialis, Knerkii, Originalis, Stricta grandis, Regina, Titsworthii, Gracilis, Braziliensis, Godseffiana, Superbum, Sanderiana.

COLIN CAMPBELL, 234 East 58th Street New York City

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nahant, Mass.

Asparagus Plumosus Nanus SEEDLINGS

The true kind from seed saved from my own plants

$10 per 1000

W. H. ELLIOTT

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We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

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ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

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ORCHIDS

Imported and Potted

FREEMAN ORCHID COMPANY

FALL RIVER, MASS.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

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Telephones 1501 and L 1582
1415 Farnum St.,
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FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

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Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

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Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
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Member Florists' Telegraph Delivery.
DENVER, COLORADO

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J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Utica, N. Y.—Utica Floral Co.

Rochester, Minn.—D. M. Wigle, 13 S. Broadway.

Chicago, Ill.—L. R. Bohannon, 57 E. Monroe St.

Fulton, N. Y.—Theodore Foerderer, 7 Second St.

Beverly, Mass.—Larcom & Smith, Mason Bldg.

Norwalk, Conn.—George Peyenos, Lander Block.

Oakland, Pa.—J. M. Hamm, 3810 Forbes street.

San Francisco, Cal.—Hogan & Kooyman, wholesale.

Baltimore, Md. -Crescent Florists, N. Fremont Ave.

STEAMER DEPARTURES

Allan.
Grampian, Boston-Glasgow...Mar. 31

American.
Philadelphia, N. Y.-Liverp'l..Mar. 27

Atlantic Transport.
Minneapolis, N. Y.-London...Mar. 21

Cunard.
Carmania, N. Y.-Liverpool....Mar. 25

French.
La Touraine, N. Y.-Havre....Mar. 25
Rochambeau, N. Y.-Havre....Mar. 28

Hamburg-American.
Amerika, N. Y.-Hamburg.....Mar. 26
Pres. Grant, N. Y.-Hamburg..Mar. 28

Holland-America
Potsdam, N. Y.-Rotterdam....Mar. 24
New Amst'd'm, N. Y.-R't'd'm..Mar. 31

North German Lloyd.
Kronp. Cecilie, N. Y.-Bremen..Mar. 24
Koenig Albert, N. Y.-Medit'n..Mar. 28
Kronp. Wilhelm, N. Y.-B'm'n..Mar. 31

Red Star.
Lapland, New York-Antwerp.Mar. 28

White Star.
Cedric, N. Y.-Liverpool.....Mar. 26
Olympic, N. Y.-Southampton.Mar. 28
Arabic, Boston Liverpool.....Mar. 31

Baltimore, Md.—Fremont Flower Shop, Fremont avenue.

Trenton, N. J.—F. X. Millman, State St. and Montgomery Ave.

New York City—S. C. Gilbert, 275 Columbus avenue, wholesale.

Pittsburgh, Pa.—Paul & Feeney, East Ohio St.; Harry J. Hamm, Forbes St.

NEWS NOTES.

Albany, N. Y.—The Albany Cut Flower Exchange will move to 611 and 613 Broadway on or about May 1.

Centralia, Ill.—J. C. Cloninger has bought out the interest of E. E. Finney in the florist business of Finney & Kearnes.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
Palmer's
304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.



WASHINGTON D. C.
GUDE'S
Member Florists' Telegraph Delivery

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—Fred A. Danker, 40 Maiden Lane.
Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

FINED FOR SUNDAY WORK.

George Lutz, salesman for Adolph Le Moult & Son, florists, at 202 Bowery, New York, was found working on a Sunday recently by Inspector Carrie P. Houser, and as the corporation did not file a schedule with the Commissioner of Labor showing that he had one day off in a week, charges were filed in the Court of Special Sessions, against the corporation, for violating the labor law. The matter came to the attention of Chief Justice Isaac Franklin Russell, and as the corporation, through its secretary, Adolph Le Moult, entered a plea of guilty, a fine of $20 was imposed.

FIRES.

Salem, Mass.—The store and contents of H. T. Conant & Co., florists, on Essex street, was damaged by smoke and water during a fire in the basement of the building on March 12.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

Of Interest to Retail Florists

TRADE GETTING.

Because I have been rather successful in the florist business I have been asked by many friends in the business to give some advice to them along the lines of store management, and also of trade getting. I shall, however, take up the last part of this subject, as it is the most important for those who are working in the store and come in direct contact with the trade. My experience has been mostly in the small cities of New England, and where the shoe industry flourishes the best, and I write from the standpoint of a woman and in the handling of the retail trade.

I know of no set rules that will help, but will give you my own experience. The flower business is a peculiar one and appeals to the artistic sense, even when you are standing ankle deep in the designing room. To begin with, I love my trade; that is, I really like the people who come to trade with me. I look upon them, whether rich or poor, as deserving of deep affection, and I do not put up a "bluff" article when I take this attitude, for if ever there was a business in which affection for all of humanity is needed it is in the flower business.

Quite frequently young men will come to order cut flowers for dances for their fair escort. They welcome any suggestion you may make as to the color of flower that should be used; but, for goodness sake, make the suggestion show some interest in the order! I know of one case where an order was given by a young man who had no idea of what would be the best color for his lady friend to wear at a dance, so I hustled to the telephone, got into communication with the dressmaker, whose name he had found out, and discovered that the lady would wear a light blue dress. I was then able to give him the proper idea of color for a bouquet, and received a good sized order from him; not only that, but through him I received orders from nearly half the young men who attended that particular dance.

It is well to get a good idea of the arrangements of the houses and gardens of the wealthier class of patrons in your town. I have in mind a home which I visited when it was in the process of construction. I planned in my mind's eye just what kind of flowers and plants should be used in the different rooms, for different occasions, as I knew the owner would entertain a great deal. In a few weeks I had a call from Mrs. Owner, and she said she "was going to give a small card party, but wanted a few flowers for the different rooms," naming a small price she was willing to pay. I told her what I could give her that would bring out the harmony of the furnishing of her home. As I had already a pretty good idea of the house I was enabled in one visit to place my decorations where they were most effective without hesitation, and with absolute confidence. As a result of this work, I secured a valuable permanent customer. You cannot make much money on a decoration job, but you can make a whole lot of friends, and friends mean business.

I have seen some flower salesmen, in taking an order, give the whole history of the flowers that were to be used, including the wholesale price; but customers don't want history, they want flowers, and expect you will make a fair profit. I have seen a good-sized order lost just because the salesman went on in this fashion, in a kind of monologue: "The flowers will cost you three dollars, the frame one dollar, and the making up two dollars." By that time the customer's mind had become confused, and she concluded she would let him know later, which she did by going somewhere else. In small towns and cities, near relatives of the deceased give their orders personally and, quite frequently, they have other matters on their minds, so do not confuse them by useless talk. Don't do a lot of figuring in the presence of the customer, especially when you are taking a funeral order. It is also well to remember that, while your customer may be in a hurry, he will resent any show of haste on your part. You may smile at it, if you wish, but, as a salesman or woman, you cannot have your mind on a tango dance and take a good funeral order. A customer can detect, without looking for it, whether you are in sympathy with the conditions under which you are taking the order. And along this line, speaking especially for the small store, don't have any "loafers" up in the front of your store. Customers particularly resent being watched in a flower store.

I have found it extremely difficult to get clerks to realize the importance of the right mental attitude towards their work, but I can say frankly the quickest way to spoil a good mental attitude is to contract the habit of criticising the appearance or dress of callers, and never class trade as "wealthy" and "poor." Take just as much pains with the small purchaser as with the large one. Every one that steps into my store is my friend, and a friend of the store.

LILLIE JOHNSON.
Rockland, Mass.

WASHINGTON NOTES.

David Bisset, son of Peter Bisset, is confined to his home with a fracture of the left leg caused by his falling from a street car. Mr. Bissett was but recently allowed to leave the hospital where he was confined for a number of weeks following a collision between the motor cycle which he was operating and a large automobile truck, which caused a compound fracture of the knee.

Parcel post rates will now apply on shipments through the mail of seeds, cuttings, bulbs, roots, scions and plants, and the necessary instructions putting this order into effect is being sent by Postmaster General Burleson to all postmasters. This law was enacted by Congress on March 9, and repeals the rates heretofore applying. Packages and parcels of seeds, cuttings, bulbs, roots, scions and plants, weighing four ounces or less will hereafter be mailable at the flat rate of one cent for each ounce or fraction thereof, without regard to distance, while on parcels exceeding four ounces, the pound rates to the various zones will be applicable.

The DuPont Flower Shop is the name of the new store recently opened at 6 DuPont Circle, N. W., under the management of Elmer C. Mayberry. The Shop is one of the most attractive flower stores in the city. The interior fittings are of the new French gray. The store is divided at the rear by a lattice, which also covers a portion of the two side walls, to give space for a workroom. Above this is a large skylight and this with the windows and the several clusters of high-power electric lights gives ample illumination. There is extensive display space at the front, the window of the box type extends beyond the entrance to the store, the glass covering the entire front so that all flowers and plants on display are placed directly on the floor. The floor is of stone.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns
Are Thoroughly Covered by
SCHILLER, THE FLORIST
(Member Florists Telegraph Delivery).
Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
GEORGE ASMUS, Mgr.
2221-2223 W. Madison St., CHICAGO.
'Phone West 822

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association



FOR YOUR EASTER NEEDS

YOU OUGHT TO HAVE

RICE'S BASKETS

The Best To Be Had. The Biggist Variety. Finished in Our Incomparable "Duotone" Colors. Send Us An Order For a Trial Assortment.

Any Amount From $5.00 Up. You'll Be More Than Pleased

Pebbled Pleated Paper

A Splendid Covering For Your Easter Plants. Enormous Stock in Every Flower Shade

THE HOUSE OF RICE

The Supply House That Never Disappoints

1220 RACE STREET PHILADELPHIA, PA.

SEND FOR OUR EASTER "WILLING HELPER" SUPPLEMENT

PRESENTATION TO CHARLES KAHLERT.

Thirty-eight years in the employ of one firm is the fine record of Charles Kahlert, who has been with the retail house of Pennock Brothers, Philadelphia, since the opening of the Centennial, May 9th, 1876, and still in active harness. He decorated the Centennial window of the firm for the spring week. Seizing the occasion of Mr. Kahlert's 60th birthday, March 14th, members of the firm and fellow employees attended a little celebration at Mr. Kahlert's home in Norwood, Pa., on the 14th inst. During the proceedings A. B. Cartledge, senior member of the firm, presented Mr. Kahlert with a handsome gold watch and chain, from the firm and fellow employees, as a memento of their esteem and respect. Mr. Cartledge spoke feelingly of the long and faithful service and the sterling worth and high character of the recipient, and voiced the sentiments of all present in the happiest manner.

Commodore Westcott, who presented a gold engraved seal pendant, also spoke. He said Mr. Kahlert had started with him in Brooklyn, N. Y., and later joined him in Philadelphia after he became a member of Pennock Bros. and had been there ever since. He cordially endorsed all the good things that had been said and was glad to be present to testify to his esteem. He considered "Charlie" one of "his boys" and felt towards him more like a son than an old employee. Mr. Kahlert feelingly replied and thanked his friends most cordially for their good wishes and the beautiful mark of esteem, which he would wear next his heart as long as he lived.

The writer of this note has known Mr. Kahlert some twenty years and considers him a shining light. The editor of this journal has known him even longer, and I am sure will join me in wishing that he may live a thousand years. We are proud to have known him and extend our cordial congratulations on this occasion of well-deserved appreciation from his friends and fellow workers.

GEORGE C. WATSON.

PHILADELPHIA NOTES.

W. F. Littlefield and wife passed through the city and called on the trade last week. They are on their way home from a trip to Honolulu.

W. Frank Therkildson, advertising manager for W. Atlee Burpee & Co., has gone West on a friendly visit to his old location at Painesville, O. He will attend incidentally to committee matters connected with the American Seed Trade Association, of which he is vice-president.

Counter trade among the seed houses here is very backward for mid-March, and while they all know why, they cannot help growling at what old Boreas has been doing to them these five weeks back. And he is still doing it, the old scoundrel. Meantime, if we may believe the Washington Star:

"The groundhog sleeps well tucked away
While blizzards blow;
He doesn't even deign to say
I told you so."

Wm. A. Leonard, Landsdowne, is showing up as one of our most successful and enterprising growers. He has a big new addition to his already large area of glass under way and will complete same in time for next season's crops. In addition to being a great rose grower, Mr. Leonard is also an enthusiastic yachtsman — and a member of the Yachtsmen's Club of Philadelphia, with finely equipped quarters at Juniper and Jenson. We had the pleasure of meeting a number of old friends there the other day—as Mr. Leonard's guest.

Parker Thayer Barnes is in the far end counties of Pennsylvania teaching the farmers how to fight the insect pests for the past year or two. In a personal letter he states that there is going to be another short peach crop in that region, mainly because his solemn warnings have been largely unheeded. But the wise ones are waking up in this as in many other important matters, and the campaign of the Department of Agriculture, of which Prof. Surface is the ruling spirit, is bound in time to bear fruit. Mr. Barnes sends kindly greetings to all his old friends of the Florists' Club and others around Philadelphia.

Your editorial about the lads who are "perpetually burning incense to themselves," is very good. It's an American trait, but here in Philadelphia it has always been at low ebb. I can well remember twenty-six years ago, when I first settled in the Quaker City, how refreshing it was to read what Wilmer Atkinson said about his journal, "that it did not devote one-half of its space to telling how good the other half was." Yet for all that, Philadelphia has some advertisers of world-wide fame—Burpee, for instance, and Wanamaker, and lots of others. But they never scream to convince. They say it quietly, but strongly.

"The Right Way of Gardening" was the subject of a lecture by Maurice Fuld, of New York, a well known horticulturist, at 1714 Chestnut street, last night.

"Don't follow too many rules," he advised his audience. "Put little faith in what you read in rule books and seed catalogs. The majority of the latter are so devised as to fool the unknowing and to trick them into buying seeds that will be of no use to them.

"If the seed merchants would only realize that by tricking [illegible] a customer only to [illegible] they would adopt a [illegible] policy.

"Don't be afraid to [illegible] garden. Don't do [illegible] that would prove difficult to a professional gardener. Don't think [illegible]

THE RIBBON HOUSE

SCHLOSS BROS.

31-33 East 28th Street, NEW YORK

HEADQUARTERS FOR

Florists' Ribbons, Chiffons and Novelties

Visitors welcome at our store and at our Exhibit at Flower Show in Grand Central Palace.

A Florist's Necessity HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches	high,	$2.50	per doz.	4	24	inches	high,	$5.00	per doz.
2	15	"	"	3.50	" "	5	30	"	"	6.50	" "
3	18	"	"	4.00	" "	6	36	"	"	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

be a gardener. Don't trust to luck. And, above all else, don't have too many 'don'ts.'"

The above is a sample of the way the Philadelphia papers reported Mr. Fuld after his lecture there on the 13th. The assertion that the seed catalogues are unreliable seems a pretty large order. Isn't this an aspersion on the whole seed trade of the country by one of its own members?

CHICAGO NOTES.

The Reissig Greenhouses at Riverside, Ill., one of the oldest florist establisments near Chicago have been sold, including 80 acres of land. There is a large new range of greenhouses on the property.

Phil Schupp, manager for J. A. Budlong, says this has been a remarkable year for lily of the valley in that the sales were steady from the beginning of the season to the present time. Lent, which usually cuts into the sales, has made almost no difference so far. The quality of the pips has proved first class, though some apprehension was felt at the time of their late arrival.

At Frank Oechslin's, greenhouses, where plants are grown exclusively, the Easter stock is at a most interesting stage. Rhododendrons are carefully shaded, the plants large, finely branched and buds just bursting. There is a fine lot of azaleas and much of the stock is of the newer and choice varieties. Several houses of roses will be just in time. Bulb stock will be practically gone. Mr. Oechslin expects to attend the Flower Show in New York and, as he served his apprenticeship in the East, he knows just what a treat is in store for him.

The Chicago Retailers' Association are making preparations for an extensive exhibit of flowers and florists' supplies at their next regular meeting.

All sorts of conflicting reports are afloat concerning the cut lily supply for Easter, and each grower seems to have an experience differing from all others. By sifting the evidence as much as possible the conclusion is reached that there are many giganteums not up to the average in height, and some real danger of flowers opening too soon should the weather be bright for some days preceding the very late Easter.

The excitement over the arrest of C. M. Dickinson, former manager of E. H. Hunt, Inc., at Stony Butte, Montana, by C. E. Pruner, traveling salesman for and one of the stockholders in the company, on the charge of embezzlement, as stated in our last issue, has subsided and the matter brought to a halt by the refusal of the governor of Montana to sign the extradition papers necessary to secure Mr. Dickinson's return to Illinois. Mr. Pruner is now in Texas and the matter will rest till his return. There was some irregularity in the making out of the papers, which have been held over a year.

Six years ago a few hundred shamrock plants were ordered from the East and sold to the retailers, who disposed of them as novelties to a public always on the watch for something new. Each year has seen the sales of Ireland's favorite plant grow, and this year surpasses anything known here before. For three days one of the large department stores has been disposing of thousands of plants in inch pots at 2½c. per plant, and every florist has sold more than ever before. Special boxes were offered by the florists, the invention of a local florist, and so arranged as to safely carry two plants in 2-inch pots.

About fifty Chicagoans attended the joint meeting of the Illinois and Indiana State Florists' Association at Danville, Ill., March 10-11, and a very enthusiastic meeting is reported. The attendance was more than double that of any previous meeting of either association. The exhibits of cut flowers were extremely good and the exhibitors spared no pains to make a creditable showing, while the display of various kinds of supplies were of general interest to the trade. It was a disappointment, however, so far as the booking of orders went, for the first evening was given over to the banquet and the second day was spent at the State Agricultural College at Urbana, Ill., and most of the florists left immediately afterwards for home.

Schloss Bros., new ribbon headquarters at 33 East 28th street, is well worth a visit from any florist attending the big flower show. It is right in the wholesale cut-flower district which is frequented by the entire trade, and Mr. Schloss reports a large increase in business since their opening six weeks ago. The show room, on the first floor of a new building, is 45 x 90 ft., finely lighted for inspecting the many new fancy ribbons for the Easter trade, and there are some handsome corsage novelties also worth examining.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

UNITED REFRIGERATORS

Sell Flowers and keep them in best condition. All sizes Display Cases, Coolers, etc. Ask for Catalog X4.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

The Florist Supply House —OF— America

IT IS NOT TOO LATE TO SEND US YOUR ORDER FOR

EASTER BASKETS

HANDLE POT BASKET



No. 68706

	Depth		Width		Height
1.	5	x	5½	x	18
2.	5½	x	6½	x	20
3.	6	x	6½	x	22
4.	6½	x	7	x	24
5.	7½	x	7	x	26
6.	7½	x	7½	x	28
7.	8	x	8	x	30

Get Our New

SUNSHINE BASKETS

You and your trade will be pleased, good for plants, flowers and ferns.

Everyone uses the Tumbler Baskets, colors **Plain** and in **Sunshine Tints**—abundant of styles to select from—largest range of styles ever shown.

HANDLE POT BASKET



No. 62940

	Depth		Width		Height
A.	7½	x	7½	x	26
B.	8½	x	8½	x	28
C.	9½	x	9½	x	30
D.	10	x	10	x	33
E.	11	x	11	x	36
F.	12	x	12	x	39



No. 205



No. 230



No. 232

MATS—Large Stock to Select From **SPECIAL—Our Penny Crepe Paper Pot Cover is the Best Ever Produced—Try Some, All Shades Imported Waterproof Crepe Papers, All Colors**

H. BAYERSDORFER & CO.

1129 Arch Street **PHILADELPHIA, PA.**

KILLARNEY BRILLIANT

Far superior to the old type of Killarney. A brilliant deep color, and a larger flower. We handle the crop of 25,000 plants, and offer you a good supply of this new rose, several thousand flowers a day, $6.00 to $12.00 per 100.

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

OUR Spring Trade Series

MARCH 28 and APRIL 4

WILL ALL HAVE

Superlative Advertising Value

THE BEST LETTERS

FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI March 16			CHICAGO March 17			BUFFALO March 9			PITTSBURG February 23		
Am. Beauty, Special	40.00	to	50.00	40.00	to	50.00	40.00	to	50.00	35.00	to	40.00
" " Fancy and Extra	30.00	to	40.00	30.00	to	40.00	30.00	to	40.00	20.00	to	25.00
" " No. 1	15.00	to	20.00	6.00	to	15.00	15.00	to	20.00	10.00	to	15.00
Killarney, Extra	8.00	to	10.00	5.00	to	8.00	10.00	to	12.00	10.00	to	12.00
" Ordinary	6.00	to	8.00	2.00	to	4.00	4.00	to	6.00	4.00	to	8.00
Richmond, Hillingdon, Extra	10.00	to	12.00	5.00	to	8.00	6.00	to	10.00	10.00	to	12.00
" " Ordinary	4.00	to	8.00	2.00	to	4.00	4.00	to	6.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00	to	10.00	5.00	to	8.00	10.00	to	15.00	10.00	to	15.00
" " " " Ordinary	6.00	to	8.00	2.00	to	4.00	6.00	to	8.00	6.00	to	8.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	3.00	to	4.00	2.00	to	3.00	2.50	to	3.00	.....	to	4.00
" Ordinary	2.00	to	3.00	1.00	to	2.00	1.50	to	2.00	2.00	to	4.00
Cattleyas	35.00	to	50.00	40.00	to	50.00	35.00	to	40.00	40.00	to	50.00
Lilies, Longiflorum	10.00	to	12.50	10.00	to	12.00	10.00	to	12.00	..	to	15.00
Callas	10.00	to	12.00	8.00	to	10.00	10.00	to	12.00	10.00	to	12.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Paper Whites	2.00	to	3.00	3.00	to	4.00	2.00	to	3.00	.....	to	3.00
Freesias	2.00	to	3.00	3.00	to	4.00	3.00	to	4.00	.....	to	3.00
Daffodils	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	3.00	to	4.00
Tulips	2.00	to	4.00	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Violets	.50	to	.75	.40	to	.75	50	to	.60	.50	to	.75
Mignonette	5.00	to	6.00	4.00	to	8.00	2.00	to	5.00	.....	to	4.00
Daises	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50	2.00	to	3.00
Sweet Peas	.75	to	1.50	.75	to	1.50	.50	to	1.00	.50	to	1.00
Gardenias	25.00	to	35.00	25.00	to	30.00	15.00	to	25.00	.....	to	.....
Adiantum	1.00	to	1.50	.75	to	1.00	1.00	to	1.25	.....	to	1.25
Smilax	12.50	to	15.00	12.00	to	15.00	12.00	to	15.00	.....	to	15.00
Asparagus Plumosus, Strings (100)	40.00	to	50.00	35.00	to	50.00	40.00	to	60.00	.....	to	50.00
" " & Spren. (100 bchs.)	25.00	to	50.00	35.00	to	50.00	35.00	to	50.00	40.00	to	50.00

BUY

BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

ROBERT J. DYSART

PUBLIC ACCOUNTANT AND AUDITOR

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED

Merchants Bank Building

40 STATE ST BOSTON

Telephone Main 58

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

When writing to advertisers kindly mention HORTICULTURE.

Flower Market Reports

BOSTON The flower market didn't stay very long on high ground. The first dose of warm sun this week toppled it over and very decisive has been its fall, judging from conditions and outlook in the wholesale markets as we go to press. Everything has taken a tumble in the general slump and there are accumulations of carnations and bulb material especially, that have an ominous look. Roses, while of splendid quality, are overstocked already. Lilies slow and the speciosum rubrums are difficult to move at any price. Snapdragons, superb in all respects, bring but $4 to $6 per 100, which is entirely inadequate for such stock, and even at that they accumulate. There are very heavy receipts of violets, more of which are sold at $1.50 per 1000 than at any higher figures. The buyer has everything his own way for a while, at least.

BUFFALO The long-looked-for reaction has finally come, and the past week experienced the best volume of business since the Lenten season began. Not only has the market been cleaned up of the heavy surplus but a steady trade existed and prices were more satisfactory all around. The receipts were not quite so heavy but there was enough of everything and no shortage existed on any one line. Carnations had good sales, also roses, which have come on in good supply and Beauties sold to good advantage. Sales have increased on lilies, and bulbous stock has moved much better than the previous weeks. Sweet peas had a better call and violets were well cleaned up, though at department store prices.

CHICAGO A welcome break came in the monotony of a few dull weeks and for some unexplainable reason trade took a sudden turn for the better. While there was nothing extreme about it, both local and shipping trade decidedly picked up and good flowers sold readily though not at fancy prices. Wholesalers no longer expect prices that prevailed at the holidays and for weeks following, but are willing to work their stock off at a fair price and the retailers are encouraged to push sales by liberal use of the advertising columns of the city papers. There is a good supply of everything seasonable and good quality can be obtained in practically everything except American Beauties which are quite off with most growers. Killarneys and Richmonds and a few Sunbursts form the bulk of the roses and eight cents is about the limit with most houses. Sweet peas are more plentiful each week but the quality of the butterfly type is so good that any amount can be used. Violets are nearing the end of the season but some excellent home-grown ones are still offered. Sales of lily of the valley are keeping up unusually well. Bulb stock continues to come steadily and much of it is choice. Sales of dyed flowers showed no signs of diminution in out-of-town trade, but most wholesalers report a falling off of local demand. The sickly shade of green, that most attempts at dyeing white flowers produces could find favor but for a limited time and some of the larger dealers say their sales for Killarney and Richmond roses were much larger for St. Patrick's Day, greatly to their liking.

CINCINNATI Business is pretty fair. Prices are only ordinary ones but the aggregate of sales runs into money. The supply is in general easily sufficient for all requirements and in some lines it far exceeds actual needs. Shipping business is good. The demand for white carnations for the 17th was very good and easily took up all offerings at good prices. Th...

(Continued on page ...)

ROSE SPECIAL

A good medium grade of Roses in lots of 200 or more, our selection as to color $3.00 per 100, excellent value.

HEADQUARTERS FOR GREENS

BOXWOOD	per case of 50 lbs. $8.00; 3 case lots at $7.50
LAUREL ROPING	per 100 yds. 6.00
WILD SMILAX	per case 5.00
WILD NUTMEG, Sprays	per 100 3.00
CHESTNUT OAK FOLIAGE	per 100, $2.00; per 1000 15.00
GALAX, Bronze and Green	per 1000, $1.50; per case of 10,000 7.50
MAHONIA, Bronze and Green	per 100, $1.50; per 1000 12.50
LEUCOTHOE, Bronze and Green	per 1000 7.50
MEXICAN IVY	per 1000 7.50
DAGGER FERNS	per 1000 3.00
FANCY FERNS	per 1000 4.00
GREEN SHEET MOSS	per bag 3.50
SPHAGNUM MOSS	per bale, 10-bbl. size, burlapped 4.00
ASPARAGUS, Strings	each .50
ASPARAGUS, Bunches	each .50
SPRENGERI, Bunches	each .50
SMILAX, Strings	each, .20 and .25
ADIANTUM	per 100 1.50

EVERYTHING IN RIBBONS—We carry one of the largest and most varied stock of Ribbons pertaining to the florists' business of any house in the country. If you have not received one of our new Catalogues advise us at once and we will mail you a copy.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA 1608-20 Ludlow St. **NEW YORK** 117 West 28th St. **WASHINGTON** 1216 H St., N. W.

BALTIMORE, Franklin and St. Paul Sts.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON March 19			ST. LOUIS March 16			PHILA. March 16		
Roses									
Am. Beauty, Special	50.00	to	60.00	30.00	to	40.00	40.00	to	50.00
" " Fancy and Extra	20.00	to	30.00	15.00	to	25.00	25.00	to	35.00
" " No. 1	10.00	to	15.00	8.00	to	10.00	5.00	to	20.00
Killarney, Extra	6.00	to	10.00	6.00	to	8.00	6.00	to	10.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	5.00
Richmond, Hillingdon, Extra	6.00	to	10.00	6.00	to	8.00	6.00	to	10.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	2.00	to	5.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	10.00	6.00	to	8.00	6.00	to	10.00
" " " " Ordinary	2.00	to	4.00	3.00	to	4.00	2.00	to	5.00
Russell, Shawyer	10.00	to	15.00	.....	to	.....	4.00	to	25.00
Carnations, Fancy	2.00	to	2.50	2.00	to	4.00	3.00	to	5.00
" Ordinary	1.00	to	2.00	1.00	to	1.50	1.00	to	2.00
Cattleyas	20.00	to	35.00	40.00	to	50.00	25.00	to	50.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	6.00	to	12.00
Callas	.....	to	10.00	10.00	to	12.50	8.00	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	2.00	to	4.00
Paper Whites	1.00	to	1.50	2.00	to	3.00	.....	to	.....
Freesias	1.00	to	2.00	2.00	to	3.00	1.00	to	3.00
Daffodils	1.00	to	1.50	2.00	to	3.00	2.00	to	3.00
Tulips	1.00	to	1.50	2.00	to	3.00	2.00	to	4.00
Violets	15	to	.25	.20	to	.40	20	to	.50
Mignonette	2.00	to	6.00	4.00	to	5.00	2.00	to	4.00
Daisies	1.00	to	2.00	.....	to	.....	.50	to	2.00
Sweet Peas	.40	to	1.00	.20	to	1.25	.20	to	2.00
Gardenias	15.00	to	20.00	.....	to	.....	10.00	to	20.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	35.00	to	50.00

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ROSES AND CARNATIONS	Last Half of Week ending Mar. 14 1914	First Half of Week beginning Mar. 16 1914
American Beauty, Special	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	20.00 to 40.00
" " No. 1	5.00 to 15.00	8.00 to 20.00
Killarney, Extra	4.00 to 8.00	4.00 to 6.00
" Ordinary	2.00 to 4.00	1.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 8.00	4.00 to 8.00
" " Ordinary	2.00 to 4.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 10.00	4.00 to 8.00
" " " Ordinary	3.00 to 4.00	2.00 to 4.00
Russell, Shawyer	2.00 to 8.00	2.00 to 8.00
Carnations, Fancy Grade	2.00 to 4.00	2.00 to 3.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
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Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 443)

continues good and the larger part of the stock coming in is in the larger and better grades. Carnations of all kinds are plentiful, also lilies. Large quantities of violets meet with a poor market. Sweet peas, too, are plentiful. Bulbous stock is apparently nearing an end for the season. Business in decorative greens is very good.

NEW YORK

The main thought in connection with the wholesale flower trade here at present moment is that it shows a very noticeable improvement for the past few days. How long it may last nobody can predict but it is welcome for however long it stays. On Monday morning an air of activity in and about the wholesale marts was discernible from the very start and it has kept up nicely since then. Carnations have found an active market and violets, although selling very low, are being distributed out much better than heretofore. Roses hold their own as to demand and are more than holding their own as to quality. They have never been finer at any season and it is pretty certain that at the coming New York show the rose growers will make a new record. Bulbous stock continues plentiful and sells low. There are lots of sweet peas of many grades, only the really fancy ones commanding a good price and sure sale. Cattleyas go with exasperating slowness and gardenias are also hanging fire badly. Very little talk about Easter yet in the flower district.

PHILADELPHIA

Early last week the depressed condition of the market continued and old "Iron Face" had it pretty much his own way. But by Thursday a vast change came over the scene and prices stiffened, and in many cases went up with a jump. This continued Friday and by noon Saturday the market was pretty well cleaned up. So take it altogether it was a pretty good week. Carnations are in brisk demand. The finest arriving at present are Gloriosa and Pink Delight. In roses the supply of short stemmers is rather redundant, and this has had a depressing effect on the whole rose market. There is always a good demand for medium roses, but when there are too many of these it hurts sales for the better qualities. Mrs. Taft and Mrs. Aaron Ward, which have been little in evidence for a while back, are now coming in more freely. The orchid market is not in very good shape. While the quality is fair, the demand is anything but brisk. Gardenias and violets also continue on the slow side, although the bright weather of the last few days is helping them a little. While sweet peas are very plentiful, they continue to sell well and the quality is par excellence. A much scarcer item now is the daffodil. Prices on these are holding very firm with some advances on the large flowering sorts. Paper whites are scarce and we see no Roman hyacinths around at all. All the staples of the season, such as lilies, lilac, mignonette, daisies, etc., are in ample supply

(Continued on page 452)

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 14 1914	First Half of Week beginning Mar. 16 1914
Cattleyas	15.00 to 50.00	5.00 to 50.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Callas	8.00 to 12.00	6.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Paper Whites	1.00 to 2.00	1.00 to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Violets	.15 to .35	.15 to .35
Mignonette	2.00 to 4.00	2.00 to 4.00
Daises	.50 to 1.00	.50 to 1.00
Sweet Peas (per 100 bunches)	2.00 to 8.00	2.00 to 8.00
Gardenias	10.00 to 20.00	10.00 to 20.00
Lilacs (per bunch)	.. .. to 1.50	..... to 1.50
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	20.00 to 40.00
" & Spren (100 bunches)	10.00 to 20.00	20.00 to 40.00

Cut Flowers for Easter

Ample supplies of all staples in cut flowers

ROSES, CARNATIONS, VIOLETS, VALLEY, ORCHIDS, GARDENIAS

EVERYTHING IN SEASONABLE GREENS

Everything in Season Long Experience Careful, Conscientious Service

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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

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Aster Seed—Semple's Late Branching White, Non Lateral and Upright, White, Lavender, Pink, Deep Branching and Crego soft shell pink, also all colors mixed. 40c. per oz., postpaid. W. S. MUDGE, Enterprise Greenhouses, Gasport, N. Y.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple. 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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20th Century Plant Food Co., Beverly, Mass.
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200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

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Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

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John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

Divisions of field clumps, assortment of 10 of the best commercial kinds for cutting, $2.50 per 100; $20.00 per 1000. In separate colors, any color. $2.00 per 100; $18.00 per 1000. Assortment of 25 kinds good commercial sorts, for counter trade, small amounts of each kind all labelled true to name, $2.50 per 100; $22.00 per 1000. Surplus stock of Sylvia, Mrs. Hartong, H. Lyndhurst, Sono, G. Douzon, B. Schroeder at $1.25 per 100; $10.00 per 1000. Descriptive trade list of Dahlias on application.
W. A. FINGER, Hicksville, L. I., N. Y.

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Independence	bulblets,	$2.25 pk.,	$7.00 bu.
"	½ inch	bulbs,	$4.00 per 1000
"	¾ "	"	5.00 " "
"	1½ "	"	8.00 " "
Klondyke,	1½ "	"	12.00 " "
Mrs. King,	½ "	"	6.00 " "
Groffs mix., reds,	½ inch.		4.00 " "
"	¾ "		5.00 " "
"	1 "		6.00 " "
"	1½ "		8.00 " "
"	bulblets,	$2.50 pk.,	8.00 " bu.
"	light shades,	$1.00 per 1000 more than above.	

CLARK H. BROWN, Ashland, Mass.

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

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GLADIOLUS.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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Iron Gutters.
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HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
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The Kervan Co., New York
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HARDWOOD ASHES

Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

HART'S HANDY HANDLES

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New England Nurseries Co., Bedford, Mass.
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Old Town Nurseries, M. P. Haendler, Prop., South Natick, Mass.
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HOSE

H. A. Dreer, Philadelphia, Pa.

Black Cat Hose, 8 ply, ¾-in., 16c. foot, best quality. Try 25 or 50 feet. U. CUTLER RYERSON, 108 3rd Ave., Newark, N. J.

In writing to Advertisers kindly mention Horticulture

HOT-BED SASH

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Aphine and Fungine.
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Standard Insecticides.
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Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
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P. R. Palethorpe Co., Inc., Clarksville, Tenn.
Nicoticide, the Insecticide.
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C. G. Curtis, Callicoon, Sullivan Co., N. Y.

KENTIAS

Joseph Heacock Co., Wyncote, Pa.
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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

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Horticultural Importers and Exporters.
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Horseshoe Bulbology.
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LILY OF THE VALLEY PIPS

Michell's SeedHouse, Philadelphia, Pa.
Cold Storage Valley.

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McHutchison & Co., New York City.
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Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
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Freeman Orchid Co., Fall River, Mass.
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PALMS, ETC.

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Godfrey Aschmann, Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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August Rolker & Sons, New York City.
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Otto Heinecken, New York City.
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PEONIES

Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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King Construction Company, N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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Pfaff & Kendall, Newark, N. J.
Second-Hand Pipe for Truck Farms and Gardens.
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Otto Heinecken, New York.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

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"Riverton Special."
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Eastern Nurseries, Jamaica Plain, Mass.
New Sargent Rose.
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August Rolker & Sons, New York City.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

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California Seed Growers' Association, San Jose, Cal.
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Brasian Seed Growers Co., San Jose, Cal.

SEEDS

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Boston, Mass., and London, England.
A 57 Years' List of Flower Seed Novelties.
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The Right Seeds in the Right Place.
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Quality Sweet Pea Seeds.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds

Fottler Fiske, Rawson Co., Boston Mass

Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late. 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SNAPDRAGONS

G. S. Ramsburg, Somersworth, N. H.
Silver Pink Snapdragon.
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SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

VEGETABLE PLANTS

TOMATOES.
5000 Comet Forcing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

VENTILATING APPARATUS

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

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Washington

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED a traveling man to represent a large Florist Supply House. Please state territory conversant with. Also state salary expected and give reference. Apply "B," care of HORTICULTURE, Boston, Mass.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE:

Old established greenhouse business in Western New York; four new houses, King construction; well stocked; all land you want; money maker. Investigate. Address M. S., this paper.

FOR SALE To be removed from the premises, lean-to cold house [illegible] complete ventilating apparatus. A [illegible] gain for some one. Apply to [illegible] 281 Mt. Vernon St., West [illegible]

In writing to Advertisers kindly mention Horticulture

NEW OFFERS IN THIS ISSUE

A STORY OF ROSES.
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WHOLESALE FLORISTS.
Badgley, Riedel & Meyer, New York City.
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PREMEDITATED!!

A Combination To Promote Trade

Advertiser X Horticulture = BUYER

This issue of Horticulture was planned as a

Spring Trade Promoter

Wise advertisers have made liberal use of the opportunity it offers.

Two More Coming

March 28th issue will contain a detailed account of the New York Exhibition up to the middle of Show Week, in HORTICULTURE's well-known concise and readable style and will be given a very large extra mail circulation outside of our regular subscription list.

April 4th issue will be our Tenth Regular Easter Special, always popular with the trade. It will contain an account of the final days at Exhibition and will be mailed especially to the florist trade.

TO WORK UP SPRING BUSINESS

Advertise fully what you have to offer, in one or both of these optimistic stimulators

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

The Pulverized Manure Co., 31 Union Stock Yards, Chicago

SPECIAL GREENHOUSE FERTILIZERS

FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

Fertilization is Our Specialty

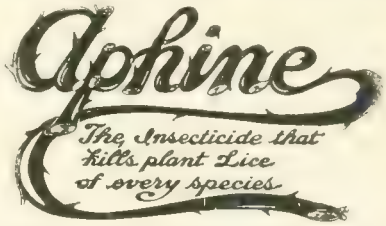
Why pay ocean freight and dealers' commissions on Imported General Fertilizers when you can buy Fertilizer Direct from the Manufacturer especially prepared to meet *your individual requirements.*

We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

We are at your service on all matters relating to Greenhouse Fertilization. Write us for further particulars

CONSUMERS FERTILIZER CO., Long Acre Building **New York City**

Factory and Laboratory, Farmingdale, N. J. | Experimental Greenhouses, Catonsville, Md. | Experimental Farm, Farmingdale, N. J.



The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

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Flower Market Reports

(Continued from page 451)

and excellent quality. The abominable dyed carnation is to be seen again everywhere, outraging good taste and the glorious memory of the Saint! It should be made a hanging offence. And then—Fire and Brimstone!

ST. LOUIS The same old story of the week previous regarding the local flower market. Stock of all kinds is much more than the demand. Light colors in flowers are about the only ones in demand. White carnations bring $4 per 100 and other colors not over $3 for fancies. Roses are down low. Violets are a glut and have been all the week and bring only $2 in 1000 lots. Sweet peas, too, can be classed with violets and are down as low as $3 per 1000. All bulb stuff also suffers greatly for want of demand, except lilies, which have sold well. Greens are somewhat scarce, especially asparagus and common ferns. A great deal of wild smilax was used for spring opening decorations.

WASHINGTON Washington is now experiencing its first taste of real spring weather, and practically of cheaper flowers, for prices have been forced down with the rising of the mercury. Carnations have dropped from up to $4 per hundred to almost nothing although there are some few which still bring a price. Violets and sweet peas, both of which are of good quality have been subjected to a similar drop. The sudden change in the weather is liable to do some little damage to the Easter stocks by bringing them into bloom before the appointed time. A similar condition caused local growers much concern a few weeks ago. However, the stock at the present time points to its being in the pink of condition at the proper time. Rambler roses are now appearing in the stores in small quantities and are meeting with a ready sale. Lilies are in somewhat larger supply but are moving fairly well.

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Gary, Ind.—Gary Floral Co.; capital, $5,000.

Memphis, Tenn.—The Flower Shop; capital $3,000.

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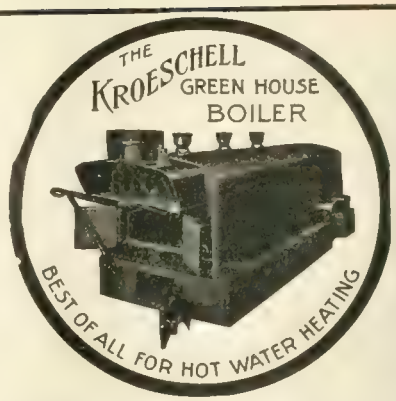
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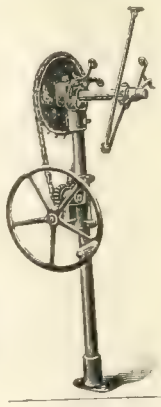
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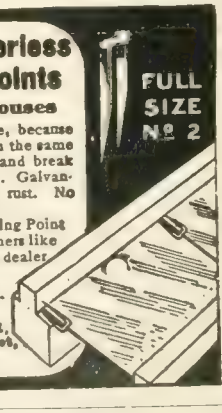
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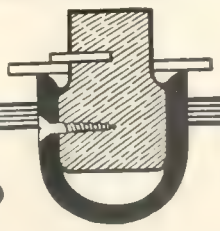
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HORTICULTURE

Vol. XIX MARCH 28, 1914 No. 13



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NOTES ON CULTURE OF FLORISTS' STOCK

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Carnation Ground

In preparing the ground for carnations it is always best to select a piece that is quite level and well-drained either naturally or artificially. Carnations while making their growth in the field require a rich soil, or the result will be a lot of stunted plants when housing time comes around. Give a good coating of well rotted manure, plow it under and harrow each way so the soil will be well pulverized. When the soil is deep plowed and well cultivated the roots can penetrate deep. Sod or pasture land is excellent when plowed in the fall and left all winter exposed to hard freezing.

Plants for Vases and Boxes

Much depends upon the plants used. Vases are sometimes in an exposed situation, while others are in a shady position. For a sunny and exposed situation the following named plants will prove very satisfactory. For centers use Dracæna indivisa or other grassy-leaved species. Chamalrops humilis or any of the Phoenix family will do fairly well. To fill the remainder, geraniums, coleus, Centaurea gymnocarpa, Begonia Vernon, petunias, ageratums, andachyranthes will give a fine color combination. For trailers Vinca major variegata, Solanum jasminoides, Abutilon vexillarium, nasturtiums, verbenas, German ivy and ivy leaved geraniums and many others. In a shady situation for centers use Phoenix rupicola, Latania Borbonica, Areca lutescens and cordylines and for the remainder use fuchsias, begonias, small plants of Ficus elastica, aspidistras and ferns. For trailers use German ivy, tradescantias, Kenilworth ivy, and Asparagus Sprengerii.

Preparations for Easter

The early buds on many of the lilies will now be showing white. These can now safely be given a cooler house and will be out in good season. It is possible now to make up these plants by selecting those which will flower together. No compunction need be used about shaking away or chopping off some of the balls to make them fit into the new receptacles. They will flower just as well if kept well watered. Tulips and narcissi which are usually grown in flats can be taken out and placed in pans. They will open just as well and last as long as if grown in them. Do not attempt this unless the plants are short and stocky and do it just before the flowers open. Hyacinths can be treated in the same way. Pansies and double daisies sold well in little baskets last Easter. If you have these in a cold house and they are coming into flower make up some pans or baskets of them. Flowering shrubs such as lilac, deutzias, cherries, double plums, etc., should now be coming into flower and ought to be opened in a cooler house. Wistarias also need similar treatment. Rambler roses, hydrangeas, spiraeas and all flowering stock will now be matted with roots and copious supplies of water are necessary to keep them in condition. What a treasure a man is who is a really careful hand at watering. He who does not skip a few pans on a bench every time he waters is the exception hard to find. Nothing so stamps the successful grower as the knowledge of how to use the hose right.

Starting Achimenes

These plants when well grown make very enticing subjects. They should be placed in pans now, using 5 to 8-inch pans. These plants require good drainage. The pans should be filled about one-quarter full of crocks and some moss placed over them. Finish off with sand so the pots or pans are about three-quarters full. Place the tubers quite close together and cover with sand. They should be given a temperature of at least 65 degrees at night. In about three or four weeks the young growths should make their appearance. When they have a growth of a couple of inches they can be potted into other pans, say six or seven in a 5-inch pan and eight or nine in a 6-inch pan. Give a compost of two parts fibrous loam, two parts leaf mold and about one part sand. Place near the glass and keep in a similar temperature to that in which they were started. Syringe and water with care.

Transplanting Seedlings

For the filling of seed pans and boxes strictly pure and fresh soil only should be used, excluding all soil used in previous indoor cultures, or any with fertilizing matter intermixed. There should be at all seasons, and at this time of year especially, adequate quantities of properly prepared soil handy for immediate use. The flats should be three inches deep, the soil made moderately firm, with smooth, even surface. With a blunt dibble, half an inch or more in width make a deep hole. Then let the seedling down, with its roots hanging straight, not bent upwards. You can insert the plant deep enough to let its seed leaves rest on the surface of the soil. The next most important thing to observe is to insert the dibble into the soil by the side of the plant so that the soil is pressed firmly around the roots.

Salvia Cuttings

Do not forget to keep propagating salvia right along, as this makes fine stock to have for late planting. The propagation of salvia can go on until May and yet make fine stock for many uses. Just as soon as they are rooted pot them up and place in a warm house. To keep them growing they will want a temperature of about 60 degrees at night. Keep them well watered and syringed.

Mr. Farrell's next notes will be on the following: Sweet Peas; Dracaena indivisa; Poinsettias; Sowing Palm Seed; Primulas; Preparing Beds and Borders.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Easter Crops

All houses that will be in crop for Easter will show color now, and should receive very good care in regard to watering, so that they are not allowed to become too dry, and thus hurt the buds. As is often the case, all sorts of insects, diseases, etc., are held responsible for the deformed buds when in reality they are usually deformed by the growers' neglect to water them enough when the critical time is on. Beauties will seldom crop as heavy as the other varieties, and they therefore will escape this as they will stand a little more drying. This, however, should not be carried to any extremes as the Beauties are as likely to suffer from being too dry as the other varieties, and that is what will account for so many "blind" Beauties as they are sometimes called. The longer days are now here, and the weather is bound to be more or less bright, and if the houses are making any growth at all there will be little danger of getting them too wet. Another reason for not letting them get too dry, is that the soil, especially if it is heavy soil, is bound to crack up, and by so doing will tear the roots to pieces, so that the plants will receive a bad check, to say the least. To put additional color into the buds it is advisable to scatter a little soot over the surface of the benches; not a great deal but just enough to blacken the soil a little. This will then be watered in, and the plants will benefit thereby. A little of it can also be mixed into the manure water, but as soon as the buds begin to show color and the crop is heavy we would rather use the former method, and avoid using the liquid manure for a while. Although there are times when Easter will bring better prices, we never force or hold the plants back to have the crop come in for that time. There are so many other special flowers grown that there is a possibility of the prices being lower than on the average day.

Mildew

Watch out these warm spring days and nights for the ever-ready enemy of the rose—mildew. Keep the houses sufficiently warm at night, and do not take the night fireman off just yet. There may be cold snaps, and if the houses are not kept right you will be inviting trouble. Put a little sulphur on the pipes every now and then; not too much, say a little every twenty feet or so. This can also be mixed with a little lime, to take the strength out of it a little, and then applied. What lime really does is to fill in a good deal of the space where the sulphur would otherwise be, and thus there will be less sulphur on the pipes than there would be if sulphur were used alone. The pipes should never carry more than 8 lbs. of steam when the sulphur is applied, as the more steam they carry the hotter they will be, and the sulphur will evaporate more rapidly, and if they are too hot it will go into the air at once, making the fumes too strong, and these strong fumes are liable to bleach the buds, or even hurt the foliage to some extent. Where no steam is used, then a little lime and sulphur mixed together will do nicely if dusted on the plants when the weather is clear and the sun shines. Do not, however, apply the mixture too thick, as this would prove harmful. It does not have to show on the plants. A fine dusting is better than a heavy one in all cases. Another way to help check an attack of mildew is to apply a spray of Fungine as soon as the mildew becomes visible. This will kill all that is living, and then regulate the air so that there will be no danger of getting another dose of it. Houses that have more or less of the mildew all the time will have to be watched all the more carefully. The best place to tell if mildew is growing is to look at the old spots where the mildew had been before. It will show signs of life right here to start with.

Shifting the Young Stock

Keep the young plants coming all along, and never for a day allow them to get too dry or pot bound. As soon as they have formed a nice mass of roots, enough, say, to hold the ball of earth together, they should be shifted into larger pots. Clean pots should be used, especially for the last potting, for we hardly can know just how long the plants are to remain in these. Have them well crocked, so that there will be perfect drainage. Many plants are spoiled by improper drainage, for if not crocked well the soil will soon stop up the hole in the pot and then sour soil will result. The soil for the final potting can be as heavy as the soil to be used in the benches later on. Use more bonemeal in this than in the soil for previous pottings, for the plants are stronger now and the roots are hardier and they will be able to stand the food.

Bonemeal

It will not be advisable to use bonemeal from now on, especially on houses that are to be taken out early. The bone dissolves slowly and the plants will not get the benefit from it, and unless the soil is used on the fields or garden, a larger percentage of plant food will be thrown away, and at the prices we have to pay for all the raw material that we use in our business it is a very poor policy to allow several dollars' worth of plant food to be thrown away. Discarded rose soil is rich enough to grow general garden crops in as it comes from the benches, and will require little manure to grow good

vegetables. In fact it is used in many places in the place of manure or fertilizers.

The Novelties

There are some very attractive novelties being put out by the leading firms whose business it is to distribute and introduce these. Look them over very carefully, and see if there are not some that will, or ought to respond well to the treatment that they will receive in your greenhouses. Some of them will no doubt do wonderful things when planted by themselves, and given the special treatment that they require. This, however, does not say that they will do this all the time under all conditions and different system of culture. To try them out place them in a bench somewhere where they will receive treatment same as your growers are used to giving the plants. If they do well go in for them. Many times the growers are responsible for the failure of this and that variety for there are some that will require a little different treatment from the general run of plants. This, however, will not be admitted by some growers who insist that a rose is a rose and that all ought to grow under the one treatment. This idea is wrong, and we are glad to note it is not followed everywhere. If it were, few of the new roses would meet with the success that they have. Things and times change, and we must change, too, if we are to remain up-to-date.

Tying the Roses in the Boxes

In shipping the longer grades of roses, say fancies and specials, it is well to pass a rope through the box at the sides and around the bottom on the outside, so that the ends can be tied on the inside, and so hold the stems of the cut blooms in position, even though the box may be turned in every way. This is a very good way to do, and the only thing one can go wrong on is the leaves that may be crushed. This, however, is very little for with ordinary care the loss of foliage by breaking is very slight.

Cover Illustration

We selected for our cover design this week one of the prettiest plant arrangements we have seen for a long time. Unfortunately the photograph falls short of showing its dainty and graceful character. It was the work of the gardener for W. B. Thompson, Yonkers, N. Y., winning the $100 prize offered by Mrs. D. Willis James for group of flowering and foliage, stove and greenhouse plants, arranged for effect, 100 square feet, at the New York Flower Show.

....Spring Musings....

Scanning the horticultural horizon on this, the first day of spring, I can see nothing but a bright and prosperous season ahead of those who, with faith in their profession have gone ahead and prepared, not only for an ordinary but unusual busy season. Especially in the plant line there is no surplus stock anywhere, and some lines are already exhausted.

The country at large is returning to its normal prosperous condition, with an unusual activity in all industrial centres. This improvement was already very visible last fall. Never in the history of the bulb business was there such a shortage at the end of the season.

I would advise the plantsmen to prepare for prosperity. Those that do a so-termed catalogue business should publish more than ever of this class of literature, some of which are getting to be regular works of art. Those that do their advertising in the columns in HORTICULTURE and other papers of same character, should double their spaces and bring their stock before the buyers.

The method of personal calls on the would-be-buyer which has been much in use of late, seems to be rather overdone. In former years, a representative of a horticultural establishment was a welcome visitor at any of the florists' or private establishments, a sort of a medium for carrying information of horticultural interest. Nowadays the same man is told he is the seventeenth man who called during the week and in a good many cases is received in the same way as the book or sewing machine agents. This, however, does not apply in the case of the real gardener or florist, who is always ready to receive his fellow-craftsmen in a professional way.

Publicity should be more sought through the horticultural exhibition and flower show. It should be the practise of every florist to grow a few specimens, either in the line in which he is engaged, or a special line that he might take up and bring before the public at such exhibitions. Unfortunately, this missionary work is left to a few florists, while the others do not exert themselves or spend either time or money on such purpose, but still derive direct or indirect benefits from such exhibitions. The public cannot ask for anything which they do not know exists, and it is only through the exhibition they can get acquainted with the different plants and flowers.

Finally, look at your calling as your profession, and not as a trade. Instead of enticing a customer from your competitors, create a new one for yourself. Work in harmony with your competitor and it will make your life more pleasant and your efforts better recognized.

W. A. Manda.

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A schedule suggestion

One of the prime attractions at the New York Flower Show this week is the group of great specimen Rambler Roses in bloom, exhibited by M. H. Walsh. Such wonderful examples of this class of roses would create a sensation anywhere in the world and constitute a prime drawing card for visitors. It is unfortunate, however, that the only class in the schedule offering a prize approaching in value the merits of such an important exhibit is that for group "arranged for effect." Competition between a group of specimens of this character and a display of smaller plants massed for color effect and general arrangement is hardly fair to either of the exhibitors or to the judges, there being so little in common to the two entries excepting their worthiness for the largest possible prize. The expense of transportation of these plants to and fro would practically eat up the largest premium offered. Another year perhaps the schedule committee will give further consideration to this matter. The absence of Mr. Walsh's roses from the show would have left a big gap.

The benefit of travel

Our list of visitors present in New York this week, attracted there by the Flower Show, while very incomplete, is a very good example of the class of people in the profession who can be depended upon to show up when any event of sufficient magnitude is in progress within a few hundred or more miles. The same names will appear again among the attendants at the S. A. F. Convention in Boston next August. It is to be noted that these men, although they spend money and time most freely in attending these exhibitions and society affairs, are never impoverished and, taken on an average, will size up respectably as against those who stay at home, often on the plea that they cannot afford to go to such gatherings. It might be well for these latter to give some thought as to whether there is not some relationship of cause and effect in the social prominence and business repute most of these untiring conventionites enjoy. There are, unquestionably, some exceptions on both sides but it is a sound proposition that the man who travels and comes in frequent contact with his fellow craftsman stands to beat out his neighbor who elects to "flock by himself" all the time.

Affiliation

Of the various problems which the different national and local organizations find confronting them and calling for some attempt at solution, perhaps the most important and far-reaching is the question of closer alliance between the various isolated local organizations, of which there are now many in all sections of the country. The problem is a many-sided one. The desirability of some method of co-operation or affiliation that will be generally acceptable and practical is not disputed by many but the recent discussions on the topic in some of the leading florists' clubs show very plainly that it will take some time and careful thought yet before anything like a generally satisfactory plan can be worked out in detail. The spirit of affiliation is in the air and so the time is opportune for threshing out something that will hold together. Even if it does fall short of the roseate dreams of some of the enthusiasts, that will be better than a structure hastily reared, fundamentally weak and liable to collapse in the first stormy weather. The S. A. F. Executive Board had a good long tussle with the subject and the report of their deliberations will be eagerly looked for.

NEW YORK

GRAND SPRING FLOWER SHOW

A splendid exhibition, running smoothly all through this week with excellent promise of financial success. Descriptive notes, list of awards, and list of exhibitors in trade section.

The big New York exhibition is drawing towards its close as we go to press. Thus far it has been a great success and there is every reason to expect that when the receipts and disbursements are counted up the balance will be found on the right side.

Nothing but praise and approval has been heard from visitors or exhibitors. The arrangements in every department of the undertaking appear to have been well made, for everything has run smoothly and rarely has an affair so large been carried on with so little friction. The opening found things in a fair condition of readiness, the judges were prompt in getting to work and the results of their decisions were quickly and accurately recorded and disseminated. Of dissatisfaction or protesting there was very little, considering the extent of the show and the high average excellence of the material shown in the many classes.

The exhibitors made a proud record for quality, this feature as well as the general arrangement and placing of the exhibits being distinctly ahead of last year.

The trade exhibits consisted very largely of plants, greenhouse structures and horticultural material, few florist supply houses being represented as compared with the S. A. F. trade shows and artificial stuff being conspicuously absent.

The retail florists got in this time "with both feet" and, as was to be expected, they got the lion's share of attention by the visitors, especially the ladies, and their booths were constantly crowded with curious or admiring throngs. On the special cut-flower days, however, the flower exhibits on the mezzanine floor became the great centre of attraction, the roses particularly getting an ovation. The staging of the cut roses on the mezzanine floor made that section the mecca for an enthusiastic multitude on Monday afternoon. Never has a finer display of greenhouse-grown roses been made. Hadley was the reigning sensation, but she was closely pressed for premier position by a vase of magnificent specimens of the wonderful Killarney Brilliant. The Hubbard medal was not awarded. It was felt that such an award should not be hastily bestowed and it has been arranged that the executive committee of the American Rose Society shall prepare a list of varieties qualified to compete and devise a plan whereby the awarding of this important trophy may be wisely safeguarded.

Perhaps the most unique sensation from the gardeners' point of view was the big group of Griffin's new Gloriosas, exhibited by Julius Roehrs Co. It was an unprecedented display of these charming subjects. While on the subject of Roehrs' exhibits we might say that the almost limitless



F. R. PIERSON

Chairman Flower Show Committee.

facilities of this eminent house have never been more convincingly demonstrated. If the founder of the firm could have come back to life again and seen the magnificent groups of orchids, stove plants, azaleas and other things bearing his name on the prize cards his delight would have been unbounded.

The bulbous displays were very extensive and made a brilliant spectacle on the mezanine floor. Their omission from the main floor detracted somewhat from the general color brightness here as compared with last year, but otherwise the change was a decided improvement. The Darwin tulips were a novelty in forced bulb exhibiting and came in for much attention. The beautiful soft pale pink Psyche was especially admired.

The orchid entries were numerous and extensive, many rare and beautiful novelties being shown by nearly a score of exhibitors. Thos. Roland's acacia group was not as extensive as the one he staged last year, but it was still beyond all possibility of rivalry. A part of the group had been shown in Boston the previous week, but all were still in perfect condition. Mr. Roland won first in every entry he made.

Massed color effect on the main floor was well-carried by the rhododendrons, lilacs and azaleas. The new French hydrangeas were shown in large numbers and fine finish by several exhibitors and came in for much admiration by the public. These and the massed cyclamen and schizanthus groups added greatly to the effectiveness of the spectacle.

THE FERNS.

Ferns certainly made a new record on this occasion. F. R. Pierson Company's great display of Nephrolepis varieties has never been equalled for number and perfection of specimens. W. A. Manda had also a great group, the crowning feature of which was Polypodium Mandaianum. Julius Roehrs' Company's Polypodium glaucophyllum crispum was a decided novelty, shown for the first time and well worthy of the special award given to it. A. N. Pierson had Adiantum Farleyense in scores of well-grown specimens. F. R. Pierson's Nephrolepis group contained no less than 33 distinct varieties.

THE ROSE PLANTS.

The rose plant entries made a magnificent show of color in which M. H. Walsh and A. Schultheis predominated. Walsh's wonderful Ramblers have never been displayed in finer form or to greater advantage. There were about thirty of these great trained specimens, from 5 to 7 feet tall and 3 to 4 feet through. Among the varieties undisseminated or of recent in-

troduction were several polyantha seedlings—one very distinct with unusually large flowers, medium pink with white base to the petals; another with medium-sized flowers, with rich glossy foliage; Regina, a pale salmon pink with waved petals, Mr. Walsh regards as the gem of the collection. These plants were all in tubs 20-22 inches in diameter. Mrs. M. H. Walsh is a porcelain white, with more petals and larger blooms than White Dorothy.

THE ORCHIDS.

The orchid displays were not only very extensive, but they were also very rich in novelties. Among the Julius Roehrs' collection we noticed such gems as Cymbidium×Pauwelsii and C.×Sanderianum; Odontioda Bradshawie O. Charlesworthi and O. Thwaitesse; Cypripedium×Maudiae variety non plus ultra; Laelio-Cattleya Dominiana; Odontoglossum×Eximium, O.× Jasper; O.×Ardentissimum; O.×Queen of Gaton. E. B. Dane showed a beautiful plant of Odontioda Bradshawae. Clement Moore had many fine things, such as the pure white Laelio-Cattleya Digbyana Imperative Derussie. The arrangement of colors in his exhibit was exquisite.

THE ROSES.

The rose men descended upon New York on Monday morning and were soon in possession of a goodly section of the mezzanine floor at the exhibition hall. Secretary Hammond established his headquarters nearby and all was hustle and bustle as the thousands of big luscious roses, some of them as tall as the men who carried them, were unpacked and gradually found their places in the long rows of vases in the enclosure set apart for their reception.

Competition was close and the judges' task was far from easy. Of American Beauty, there were but three entries in the class for vases of 100 but they were all very fine. The sensation of the show was the glorious crimson Hadley, raised by Montgomery Co. and shown by A. N. Pierson. It won the society's gold medal as the best new rose not yet disseminated, American or foreign, also the May prize for best 25 of any undisseminated variety. It was close pressed for premier position, however, by a vase of superb blooms of Killarney Brilliant from Robert Scott & Son, as the premium list shows. My Maryland and Mrs. Taft showed their fine staying qualities by opening up to perfection on the second day. Poor Bride and Bridesmaid are practically exterminated as forcing roses, not a bloom of either being shown. There were a few Bonsilene still. Sunburst made a fine appearance. Radiance proved worthy of its bright name and Killarney Queen was in every feature a queen. Manda's Cherokee found many sentimental worshipers. Mignon made a poor impression shown in sprays, ragged and straggly; a pretty little thing but at a disadvantage used in this way.

THE RETAILERS.

Not many of the New York retailers made their appearance as exhibitors, but those who did enter made very elaborate displays. Max Schling had a very extensive space in garden form which he termed The Garden of Flora. Baskets and jardinieres and other plant and flower design work were shown in great variety also a dinner table decoration and a Japanese garden of great merit, together with garden statuary, the whole electrically illumined. George Stumpp also had a very extensive display about 50 ft. front. The central feature of this booth was the unique illumined show case, which appears in the acompanying illustration. The front was a sheet of plate glass about ten feet square framed in cypress. Underneath was a compartment filled with ice and the shower bouquet and other floral work looked beautiful against the dark green velvet drapings of the interior.

Charles A. Dards' booth was finished in front with birch bark and showed a large variety of floral baskets tastefully arranged and displayed on a background of velvet flanked with stately palms. Alfred T. Bunyard also had a tasteful booth the background being a large mirror framed in foliage and flowering plants.

JAPANESE GARDEN.

The Japanese Garden by George E. M. Stumpp was a centre of interest constantly, visitors standing at the railing which surrounded it and intently studying its details from all sides. The exhibit was about 16 ft. square and presented in miniature a characteristic Japanese landscape comprising between thirty and forthy distinct gardens with plantings, structures of various kinds, bridges, brooks and ponds, etc. The water was constantly running through the gardens, being pumped by a miniature electric pump concealed underneath. It is stated that Mr. Stumpp was engaged for months on this exhibit and the truth of this is evident to anyone seeing it, for it is a marvel of ingenuity and patience.

SOCIETY HEADQUARTERS.

One of the most interesting and evidently best appreciated features was the spacious lattice-enclosed headquarters of the Horticultural Society of New York. It was elaborately adorned with plants and flowers and rich furnishings inside, and with a flower bed along the front of the enclosure. Here Mr. F. R. Newbold and other active officials held a continual reception, and ladies visiting the show found an excellent place to sit down and rest. Many new members were thus acquired for the society.

BANQUET TO JUDGES

The judges and a number of others including members of the horticultural press were invited to an informal dinner at the Vanderbilt Hotel, on Saturday evening. F. R. Pierson, chairman of the flower show committee and C. H. Totty sat at the head of the table. No speeches were made, which was quite a relief for once and every one was permitted to enjoy himself in his own way, to the accompaniment of delightful music and among rare and beautiful surroundings, this being one of the most recent additions to New York's swell hotels. There were about fifty in the party, representing widely separated sections of the country, all happy in the consiousness of a difficult duty having been zealously performed and with no fear of the consequences.

BROOKLYN DAY.

Tuesday was "Brooklyn Day" at the show. The Borough officials were the guests of the Brooklyn committee, which comprised in its membership most of the leading Brooklyn florists under the chairmanship of A. L. Miller. Brooklyn was irrespressible on Tuesday evening and it wasn't the fault of her florists if anybody escaped unconvinced of Brooklyn's prominence on the map.

GARDENERS' REUNION.

The gardeners' reunion on Tuesday afternoon and evening, March 24, was a great success. We beg the indulgence of our readers this week and hope to have an interesting story of this jovial event for our next issue.

THE AWARDS.

Following is the list of awards, regular and special, as reported up to the the evening of Wednesday, March 25. Important classes are in reserve for the closing days of the week and we shall make full report on these in our next issue.

SECTION A.

Plants in Flower—Private Growers.

Acacia, 3 plants, 1st, Berton H. and Howard Bowdon, Oceanic, N. J., gard. Percy E. Hicks.

Acacia specimen, 1st, Mrs. F. A. Constable, Mamaroneck, N. Y., gard. James Stuart.

Amaryllis, 25 plants, 25 varieties, 1st, Mrs. D. Willis James, Madison, N. J., gard. Wm. Duckham

Amaryllis, 12 plants, 12 varieties, 1st, Mrs. D. Willis James.

Anthurium specimen, 1st, Mrs. B. B. Tuttle, Naugatuck, Ct., 2d, Mrs. J. H. Wright.

Begonia, 6 plants, 1st W. B. Thompson, Yonkers, N. Y.

Cineraria hybrids, 6 plants, 1st, C. K. G. Billings, Fort Washington Ave., gard. James Bell; 2d, Thomas Aitchison, Mamaroneck.

Cineraria stellata, 6 plants, 1st, W. B. Thompson; 2d, Benjamin Stern, Roslyn.

Cineraria, specimen, 1st, W. B. Thompson; 2d, H. L. Pratt, Glen Cove.

Cyclamen, 25 plants, 1st, A. Lewisohn, gard. James B. Canning; 2d, Mrs. F. A. Constable, Mamaroneck.

Cyclamen, 12 plants, 1st, Percy Chubb, Glen Cove, gard F. Honeyman.

Chorizema, specimen, 1st, Mrs. F. A. Constable.

Genista, specimen, 1st, Miss Blanche Potter, Ossining, gard. George Witinger.

Hydrangea, 6 plants, 1st, Wm. Ziegler, Jr., Noroton, Ct., gard. A. Bieschke; 2d, John Wanamaker, Wyncote, Pa., gard. John H. Dodds.

Hydrangea, specimen, 1st, Wm. Ziegler, Jr.; 2d, John Wanamaker.

Imantophyllum, 3 plants, 1st, John Wanamaker; 2d, P. M. Warburg, Scarsdale, N. Y., gard. F. C. Luckenbacker.

Lilac, 12 plants, 1st, John Wanamaker; 2d, P. M. Warburg

Marguerite, specimen, 2d, Mrs. J. B. Trevor, Yonkers, N. Y.; gard. Howard Nichols.

Primula, 12 plants, 1st, Percy Chubb.

Primula, 6 plants, 1st, Percy Chubb.

Primula obconica, 12 plants, 1st, Percy Chubb, Glen Cove; 2d, John Wanamaker

Rhododendron, 3 plants, 3 varieties, 1st, W. B. Thompson.

Schizanthus, 6 plants, 1st, W. B. Thompson; 2d, A. Lewisohn.

Schizanthus, specimen, 1st, C. K. G. Billings; 2d, A. Lewisohn.

Flowering plants, any variety; 1st, F. E. Lewis, Ridgefield, Ct., gard. Jas. Ballantyne; 2d, W. B. Thompson.

Flowering and foliage, stove and gr en-

THE NEW YORK SHOW



General View in Eastern Section of Main Hall



General View in Western Section of Main Hall

house, plants, arranged for effect, 100 sq. ft., 1st, W. B. Thompson.

SECTION B.

Plants in Flower—Commercial Growers.

Acacia, collection, 200 sq. ft., 1st, Thomas Roland, Nahant, Mass.

Acacia, 6 plants, 1st, Thomas Roland; 2d, Julius Roehrs Co., Rutherford, N. J.

Acacia, 3 plants, 1st, Thomas Roland; 2d, Julius Roehrs Co.; 3d, Knight & Struck Co.

Acacia, specimen, 1st, Thomas Roland; 2d, Julius Roehrs Co.

Azalea Indica, 100 sq. ft., 1st, Julius Roehrs Co.

Azalea Indica, 12 plants, not less than 6 varieties, 1st, Julius Roehrs Co.

Azalea Indica, 6 plants, 1st, Julius Roehrs Co.; 2d, A. N. Pierson, Cromwell Ct.

Bougainvillea, 6 plants, 1st, L. Dupuy, Whitestone, L. I.

Cyclamen, 25 plants, 2d, Julius Roehrs Co

Erica, Epacris and Boronia, 1st, Knight & Struck Co.

Erica, 6 plants, 1st, Thomas Roland; 2d, Knight & Struck Co.; 3d, Louis Dupuy.

Hydrangeas, 150 sq. ft., Silver cup, Julius Roehrs Co.; 2d, Louis Dupuy.

Hydrangea, 6 plants, 1st, Dryer Bros., Whitestone, N. Y.; 2d, Louis Dupuy.

Lilac, 12 plants, Julius Roehrs Co.

Marguerite, 6 plants, 1st, Madsen & Christenson, Woodridge, N. J.

Marguerite, specimen, 1st, Madsen & Christenson.

Rhododendron, 12 plants, 1st, A. N. Pierson; 2d, F. R. Pierson Co., Tarrytown, N. Y.

Rhododendron, 6 plants, silver cup, F. R. Pierson Co.

Rhododendron, 3 plants, 1st, F. R. Pierson Co.

Flowering and foliage, stove and greenhouse plants, silver cup, Julius Roehrs Co.; 2d, Bobbink & Atkins, Rutherford, N. J.

Forced shrubs, herbaceous plants, arranged for effect, 1st, Bobbink & Atkins.

SECTION C.

Palms and Foliage Plants—Private Growers.

Croton, 12 plants, 12 vars., 1st, W. B. Thompson.

Croton, specimen, 1st, Mrs. J. B. Trevor.

Dracaena, 6 plants, 1st, John Wanamaker.

Dracaena, specimen, 1st, John Wanamaker.

Kentia Forsteriana, 1st, Mrs. F. A. Constable.

Kentia Belmoreana, 1st, Mrs. J. Hood, Wright, New York, gard. Chas. Webber.

Phoenix Roebelenii, 2 plants, 1st, B. Stern.

Phoenix rupicola, 1st, Mrs. J. Hood Wright.

Palm, specimen, 1st, Mrs. M. Cockcroft, Naugatuck, Ct., gard. A. Paterson; 2d, John Wanamaker.

Six foliage plants, exclusive of palms, 1st, Mrs. D. Willis James; 2d, W. B. Thompson.

Specimen foliage plant, 1st, John Wanamaker; 2d, Wm. H. Fisher, New Canaan, Ct.

SECTION D.

Palms and Foliage Plants—Commercial Growers.

Areca lutescens, specimen, 2d. W. A. Manda, South Orange, N. J.

Cocos Australis, 1st, W. A. Manda.

Cocos plumosus, 1st, Julius Roehrs Co.; 2d, Exotic Nurseries, Secaucus, N. J.; 3d, W. A. Manda.

Dracaena, 12 plants, 1st, W. A. Manda; 2d, Julius Roehrs Co.; 3d, Bobbink & Atkins.

Dracaena, specimen, any variety, 1st, Julius Roehrs Co.; 2d, W. A. Manda.

Ficus pandurata, 1st, W. A. Manda; 2d, Bobbink & Atkins.

Kentia Belmoreana, 1st, Bobbink & Atkins; 2d, W. A. Manda.

Kentia Forsteriana, 1st, Julius Roehrs Co.; 2d, W. A. Manda.

Phoenix Roebelinii, 2 plants, 1st, Exotic Nursery; 2d, Julius Roehrs Co.

Phoenix rupicola, 1st, W. A. Manda.

Phoenix, any other variety, 1st, Julius Roehrs Co.

Palms, other than above, 12 plants, 12 varieties, 1st, W. A. Manda; 2d ,Julius Roehrs Co.

Palm, specimen, 1st, Julius Roehrs Co.; 2d, W. A. Manda.



Flower Showcase in Booth of George M. Stumpp.

Stove and greenhouse plants, 6 plants, 1st, W. A. Manda; 2d, Julius Roehrs Co.

Yew trees, 6 trained plants, 1st Bobbink & Atkins.

Miscellaneous Plants—Commercial Growers.

Bay trees, 2 plants, pyramidal, 1st, Julius Roehrs Co.; 2d, Bobbink & Atkins.

Bay trees, 2 plants, standard, 1st, Julius Roehrs Co.; 2d, Bobbink & Atkins Co.

Bay trees, 2 plants, columnar, 1st, Bobbink & Atkins; 2d, Exotic Nursery.

Box trees, 2 plants, pyramidal, 1st, Bobbink & Atkins; 2d, Julius Roehrs Co.

Box trees, 2 plants, standard, 1st, Exotic Nursery; 2d, Bobbink & Atkins.

Box trees, 2 plants, bush, 1st, Bobbink & Atkins; 2d, Julius Roehrs Co.

Box trees, 6 trained plants, 1st, Bobbink & Atkins.

Conifers, 25 plants, 25 varieties, 1st, Bobbink & Atkins, 2d F. R. Pierson Co.

Japanese maples, 6 plants, 1st, Thomas Meehan's Sons, Germantown, Pa.

SECTION F.

Ferns—Private Growers.

Adiantum cuneatum, specimen, 1st, W. B. Thompson.

Adiantum, any other variety, 1st, Mrs. D. Willis James; 2d, B. Stern.

Cibotium Scheidii. 1st, John Wanamaker; 2d, H. W. Boettgers Estate, Riverdale-on-Hudson, gard. Rudolph Heiderkamp.

Goniophlebium subauriculatum, 1st, Mrs. J. B. Trevor; 2d, Mrs. J. Hood Wright.

Fern, any other variety, 1st, B. Stern; 2d, W. B. Thompson.

Selaginella, specimen plant, any variety, 1st, B. Stern.

SECTION G.

Ferns—Commercial Growers.

Cibotium Scheidii, 1st, W. A. Manda.

Ferns, 12 plants, 12 varieties, 1st, W. A. Manda.

Nephrolepis exaltata Bostoniensis, 1st, Louis Dupuy; 2d, F. R. Pierson Co.

Nephrolepis, any other variety, 1st, F. R. Pierson Co.; 2d, Dreyer Bros.

Collection of Nephrolepis, silver cup, F. R. Pierson Co.; 2d, W. A. Manda.

Stag's Horn Fern, 3 plants, 1st, W. A. Manda; 2d, Julius Roehrs Co.

Tree Fern, 1st, W. A. Manda.

Fern, specimen, any other variety, 1st, Julius Roehrs Co.; 2d, A. N. Pierson.

SECTION H.

Bulbous Plants—Private Growers.

Hyacinths, 3 10-inch pans, white, 1st, C. K. G. Billings; 2d, Mrs. D. Willis James.

Hyacinths, pink or red, 1st, Mrs. D. Willis James; 2d, John T. Pratt.

Hyacinths, light blue, 1st, C. K. G. Billings; 2d, Mrs. D. Willis James.

Hyacinths, dark blue, 1st, Mrs. D. Willis James; 2d, John T. Pratt.

Lilies, 12 pots, 1st, W. B. Thompson.

Lily of the Valley, 3 10-inch pans, 1st, Henry Gould, Port Washington, gard. Wm. Vert; 2d, C. K. G. Billings.

Narcissus, short or medium trumpet, 6 10-inch pans, 1st, John T. Pratt; 2d, E. Fardel, Booth Estate, Great Neck.

Narcissus, Glory of Leiden, 1st, E. Fardell; 2d, John T. Pratt.

Narcissus, Bicolor or Victoria, 1st, C. K. G. Billings; 2d, John T. Pratt.

Narcissus Empress, 1st, John T. Pratt; 2d, C. K. G. Billings.

Narcissus Emperor, 1st, John T. Pratt; 2d, James A. MacDonald, Flushing, gard. R. Hughes.

Narcissus Golden Spur, 1st, H. L. Pratt, Glen Cove, gard. Henry Gaut; 2d, C. K. G. Billings.

Narcissus Double Von Sion, 1st, H. L. Pratt; 2d, E. Fardel.

Tulips, Early Single, 12 10-inch pans, 1st, E. Fardel.

Tulips, Early Single, 6 10-inch pans, 1st, E. Fardel.
Tulips, Darwin, 12 10-inch pans, 1st, James A. MacDonald; 2d, H. L. Pratt.
Bulbs, arranged for effect, 1st, E. Fardel.
Bulbs, arranged for effect with foliage plants, 1st, Mrs. D. Willis James.

SECTION I.

Bulbous Plants—Commercial Growers.

Lilies, 25 pots, 1st, Louis Dupuy; 2d, John Meisem, Elmhurst.
Lilies, 50 pots, 1st, Louis Dupuy; 2d, John Meisem.
Lily of the Valley, 20 10-inch pans, 1st, Wm. H. Siebrecht, Astoria, N. Y.; 2d, Julius Roehrs Co.
Narcissus, 20 10-inch pans, 1st, Anton Schultheis, College Point, N. Y.
Tulips, early single, 1st, Anton Schultheis.
Tulips, double, 1st, Anton Schultheis.
Miscellaneous bulbs, collection, Silver cup, Anton Schultheis.

SECTION J.

Orchid Plants—Private Growers.

Collection arranged for effect, 1st, Clement Moore, Hackensack, N. J., gard. J. P. Mossman.
Three plants, 1st, Clement Moore.
Brasso-Cattleya or Brasso-Laelia, 1st, Clement Moore.
Cattleya Schroederae, 1st, Clement Moore.
Cattleya, specimen, 1st, Clement Moore.
Dendrobium, 6 plants, 1st, Clement Moore.
Dendrobium Wardianum, 1st, Miss M. L. Cockcroft; 2d, F. V. Burton, Newburgh, gard. W. Cordes.
Dendrobium, any other variety, 1st, Mrs F. A. Constable.
Cattleya, Laelia or Laelio-Cattleya hybrid, 1st, Clement Moore.
Odontoglossum, 1st, Arthur N. Cooley, Pittsfield, Mass.
Vanda, any variety, 1st, Albert J. Manda, West Orange, N. J.
Specimen plant, any other variety, 1st, A. N. Cooley; 2d, Duncan Finlayson, Brookline, Mass.

SECTION K.

Orchid Plants—Commercial Growers.

Collection, 100 plants in variety, arranged for effect, $250, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Twelve plants, Silver cup, 1st, W. A. Manda; 2d, Julius Roehrs Co.
Six plants, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Brasso-Cattleya or Brasso-Laelia, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Cattleya Schroederae, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Cattleya, specimen, 1st, Julius Roehrs Co.; 2d, Lager & Hurrell, Summit, N. J.
Cypripedium, 25 plants, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Cypripedium, specimen, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Dendrobium, 12 plants, 1st, Julius Roehrs Co.; 2d, Lager & Hurrell.
Dendrobium nobile, 1st, Lager & Hurrell.
Dendrobium Wardianum, 1st, W. A. Manda, Inc.
Dendrobium, any other variety, 1st, Lager & Hurrell; 2d, W. A. Manda.
Cattleya, Laelia, or Laelio-Cattleya Hybrid, 1st, Julius Roehrs Co.; 2d, W. A. Manda.
Odontoglossum, any variety, 1st, Julius Roehrs Co.; 2d, W. A. Manda, Inc.
Oncidium, any variety, 1st, W. A. Manda, Inc.; 2d, Julius Roehrs Co.
Phalaenopsis, any variety, 1st, Julius Roehrs Co.; 2d W. A. Manda
Vanda, specimen, any variety, 1st, W. A. Manda.

SECTION L.

Orchids Cut—Private Growers.

25 vases arranged for effect, Silver cup, Clement Moore.
Cattleya, 1st, Wm. Ziegler, Jr.; 2d, H. W. Boettgers Estate.
Laelia, 1st, Arthur N. Cooley.
Laelio-Cattleya or hybrid Cattleya, 1st, Clement Moore; 2d, Arthur N. Cooley.
Dendrobium, 1st, C. E. Chapman, Oakland, gard. Frank Black.
Odontoglossum, 1st, C. E. Chapman; 2d, Arthur N. Cooley.
Phalaenopsis, 1st, Arthur N. Cooley; 2d, Mrs. B. B. Tuttle, gard. M. J. Pope.
Vanda, 1st, Arthur N. Cooley.
Any other orchid, 1st, Clement Moore; 2d, B. Stern.



THE H. H. CHARLES CUP.

For Collection of Bulbous Flowering Plants. Won by Anton Schultheis.

SECTION M.

Orchids Cut—Commercial Growers.

Display arranged for effect, 1st, Joseph A. Manda, W. Orange, N. J.
Vase of cut orchids, 1st, Max Schling, New York City; 2d, Julius Roehrs Co.
Cattleya, 1st, W. A. Manda; 2d, Julius Roehrs Co.
Laelia, 1st, Julius Roehrs Co.
Laelio-Cattleya or Hybrid Cattleya, 1st, Julius Roehrs Co.
Odontoglossum, 1st, Julius Roehrs Co.
Phalaenopsis, 1st, W. A. Manda; 2d, Julius Roehrs Co.
Vanda, any variety, 1st, W. A. Manda.
Any other Orchid, 1st, W. A. Manda; 2d, Julius Roehrs Co.

SECTION N.

Roses in Pots and Tubs—Private Growers.

Display in pots or tubs, 100 sq. ft., 1st, Miss S. B. Fay, Woods Hole, Mass.
Collection hybrid perpetuals, 25 plants, 1st, Thos. Aitchison, Mamaroneck, N. Y.
Six climbing, 1st, Miss S. B. Fay.
Crimson Rambler, specimen, 1st, John Wanamaker.
Lady Gay, 1st, Miss S. B. Fay.
Tausendschoen, 1st, John Wanamaker.
Hiawatha, 1st, Miss S. B. Fay.
Climbing, any other variety, 1st, Miss S. B. Fay.

SECTION O.

Roses in Pots and Tubs—Commercial Growers.

Display in pots or tubs, arranged for effect, to occupy 300 sq. ft., $250, 1st, Anton Schultheis, College Point, N. Y.; 2d, H. C. Steinhoff, West Hoboken, N. J.
Twelve climbing, 1st, Anton Schultheis.
Crimson Rambler, 1st, Anton Schultheis.
Dorothy Perkins, 1st, Anton Schultheis.
Tausendschoen, 1st, Louis Dupuy.
Hiawatha, specimen, 1st, M. H. Walsh, Woods Hole, Mass.
Climbing, any other variety, 1st, Louis Dupuy; 2d, M. H. Walsh.
Collection, 25 plants, arranged for effect, 1st, Anton Schultheis; 2d, H. C. Steinhoff.
Six trained specimens of Hybrid Wichuraiana or Rambler roses, 1st, M. H. Walsh.
Display of hardy outdoor roses in pots, silver medal to Anton Schultheis; bronze medal to H. C. Steinhoff.
Pest rambler or climbing rose of American origin, 1st, M. H. Walsh.

SECTION P.

Cut Roses—Private Growers.

12 American Beauty, 1st, James B. Duke, Somerville, N. J.
12 Milady, 1st, Mrs. F. A. Constable.
12 Mrs. George Shawyer, 1st, P. B. Weidner, Ogontz, Pa.; 2d, H. W. Boettgers.
12 Mrs. Charles Russell, 1st, Mrs. M. K. Jessup, Lenox, Mass.; 2d, Mrs. F. A. Constable.
12 White Killarney, 1st, James B. Duke.
12 Richmond, 1st, P. B. Weidner.
12 Radiance, 1st, M. K. Jessup.
12 Lady Hillingdon, 1st, P. B. Weidner.
12 Sunburst, 1st, Mrs. F. A. Constable.
12 My Maryland, 1st, John Wanamaker.
12 any other disseminated variety, white, 1st, P. B. Weidner; do. pink, 1st, P. B. Weidner; do. red, 1st, P. B. Weidner.
25 roses in one vase, 1st, P. B. Weidner.

SECTION Q.

Cut Roses—Commercial Growers.

100 American Beauty, 1st, L. A. Noe, Madison, N. J.; 2d, Myers & Samtman.

Chestnut Hill, Pa.; 3d, Brant & Hentz, Madison, N. J.

50 American Beauty, 1st, L. A. Noe; 2d, Gude Bros., Washington, D. C.

50 Mrs. Charles Russell, 1st, Aug. Doemling, Lansdowne, Pa.

50 Milady, 1st, A. N. Pierson.

50 Mrs. George Shawyer, 1st, A. N. Pierson; 2d, L. A. Noe.

50 Killarney, 1st, Jos. Heacock, Wyncote, Pa.; 2d, F. R. Pierson Co.

50 White Killarney, 1st, A. N. Pierson; 2d, F. R. Pierson Co.

50 Killarney Queen, 1st, F. R. Pierson Co.; 2d, A. N. Pierson.

50 Killarney Queen, 1st, F. R. Pierson Co.; 2d, A. N. Pierson.

50 Richmond, 1st, John H. Dunlop, Toronto, Ont.; 2d, F. R. Pierson Co.

50 Radiance, 1st, Jos. Heacock; 2d, John Stephenson's Sons, Oak Lane, Pa.

50 Lady Hillingdon, 1st, F. R. Pierson Co.; 2d, A. N. Pierson.

50 Sunburst, 1st, John Stephenson's Sons; 2d, Harry O. May, Summit, N. J.

50 Mrs. Aaron Ward, 1st, A. N. Pierson.

50 My Maryland, 1st, John Welsh Young, Germantown, Pa.; 2d, Ed. Towill, Roslyn, Pa.

50 Mrs. Taft (Antoine Rivoire), 1st, S. J. Reuter & Son, Westerly, R. I.

50 Irish Fire Flame, 1st, Robert Scott & Son, Sharon Hills, Pa.

50 Mme. Cecile Brunner, 1st, F. R. Pierson Co.; 2d, A. N. Pierson.

50 any other disseminated variety, white, 1st, Brant & Hentz; 2d, Gude Bros.

50 do. pink, 1st, John Welsh Young; 2d, F. H. Kramer, Washington, D. C.

50 do. yellow, 1st, A. N. Pierson.

25 American Beauty, 1st, L. A. Noe; 2d, A. Farenwald, Roslyn, Pa.; 3d, Myers & Samtman.

25 Milady, 1st, A. N. Pierson.

25 Mrs. George Shawyer, 1st, L. A. Noe.

25 Mrs. Charles Russell, 1st, Montgomery Bros., Hadley, Mass.

25 Killarney, 1st, Jos. Heacock; 2d, A. N. Pierson.

25 White Killarney, 1st, A. N. Pierson; 2d, F. R. Pierson Co.

25 Killarney Queen, 1st, A. N. Pierson; 2d, F. R. Pierson Co.

25 Richmond, 1st, L. B. Coddington, Murray Hill, N. J.; 2d, A. Farenwald.

25 Radiance, 1st, Jos. Heacock; 2d, John Stephenson's Sons.

25 Lady Hillingdon, 1st, J. Towill; 2d, Jos. Heacock.

25 Sunburst, 1st, John Stephenson's Sons; 2d, L. B. Coddington.

25 Mrs. Aaron Ward, 1st, A. N. Pierson.

25 My Maryland, 1st, John Welsh Young; 2d, J. Doremus, Madison, N. J.

25 Mrs. Taft (Antoine Rivoire), 1st, A. N. Pierson.

25 Bon Silene, 1st, Harry O. May, Summit, N. J.

25 Irish Fire Flame, 1st, Robert Scott & Son.

25 Mme. Cecile Brunner, 1st, A. N. Pierson; 2d, F. R. Pierson Co.

25 any other disseminated variety, white, 1st, W. A. Manda; 2d, Brant & Hentz.

25 do. pink, 1st, John Welsh Young; 2d, Aug. Doemling.

Best 25 of any undisseminated variety, 1st, Montgomery Co.

Best new undisseminated rose, Hadley, raised by Montgomery Co. and shown by A. N. Pierson, 98 points, gold medal. Killarney Brilliant, shown by A. N. Pierson, 94 2-3 points, silver medal. Judges report fragrance and stem in Hadley ahead of Killarney. The new rose Lansdown not enough improvement over double Killarney to warrant any special recommendation.

SECTION R.

Carnations—Commercial Growers.

100 White, 1st, Cottage Gardens Co., Queens, N. Y.; 2d, Growers' Cut Flower Co., New York.

100 Flesh pink, 1st, Dailledouze Bros., Brooklyn; 2d, Chas. Weber, Lynbrook.

100 light pink, 1st, A. Roper, Tewksbury, Mass.; 2d, Julius Chevally, Blue Point, N. Y.

100 dark pink, 1st, Cottage Gardens Co.; 2d, S. S. Skidelsky & Co., Philadelphia.

100 red or scarlet, 1st, M. Matheron, Baldwin, N. Y.; 2d, Cottage Gardens Co.

100 crimson, 1st, M. A. Patten, Tewksbury, Mass.

100 variegated, A. A. Pembroke, Beverly, Mass.

50 White Wonder, 1st, A. A. Pembroke; 2d, M. Matheron.

50 any other white, 1st, A. A. Pembroke; 2d, John Reimels' Sons, Woodhaven, N. Y.

50 Enchantress, 1st, John Reimels' Sons; 2d, Chas. Boerrer, Westfield, N. J.

50 any other flesh pink, 1st, A. A. Pembroke; 2d, Dailledouze Bros.

50 Gloriosa, 1st, A. A. Pembroke; 2d, S. J. Goddard, Framingham, Mass.

50 Mrs. C. W. Ward, 1st, John Reimels' Sons; 2d, Cottage Gardens Co.

50 any other dark pink, 1st, A. A. Pembroke; 2d, Thos. W. Head, Bergenfield, N. J.

50 Beacon, 1st, S. J. Goddard; 2d, M. Matheron.

50 any other scarlet, 1st, A. A. Pembroke.

50 crimson, 1st, John Reimels' Sons.

50 Benora, A. A. Pembroke.

50 any other color, 1st, Siebrecht & Sons, New Rochelle.

SECTION S.

Carnations—Private Growers.

25 white, 1st, Geo Masson, Tuxedo Park, N. Y.; 2d, Winthrop Sargent, Fishkill-on-Hudson, N. Y.

25 flesh pink, 1st, D. G. Reid, Irvington; 2d, Miss G. A. Bliss, New Canaan, Ct.

25 light pink, 1st, Miss Bliss; 2d, Peter Hauck, E. Orange, N. J.

25 dark pink, 1st, Geo. Masson; 2d, John Wanamaker.

25 red or scarlet, 1st, D. G. Reid; 2d, John Wanamaker.

25 crimson, 1st, George Masson.

25 variegated, 1st, Geo. Masson; 2d, Miss C. A. Bliss.

Six varieties, 12 of each, 1st, H. M. Tilford, Tuxedo Park; 2d, John Wanamaker.

SECTION U.

Sweet Peas.

In the sweet pea classes judged Wednesday, March 25, the following named were winners: Alban Harvey & Sons, Brandywine Summit, Pa., four 1sts, six 2ds; John M. Barker, Morristown, N. J., ten 1sts, two 2ds, Herman Manitch, Englewood, N. J., two 2ds, one 3d; John Cook, Tarrytown, N. Y., one 1st, two 3ds.

Largest and finest display, winter or summer-flowering varieties or both, Burpee cup, Wm. Sim, Cliftondale, Mass.

Collection of 12 varieties, 25 sprays each, Lord & Burnham gold medal, Wm. Sim.

Society's certificate of merit for new varieties showing marked improvement over existing varieties, W. Atlee Burpee & Co.

Dinner table decoration, 1st, Thomas Aitchison, Mamaroneck, N. Y.; 2d, Martin Fitzgerald, "Greystone," Yonkers, N. Y.

SECTION W.

Miscellaneous Cut Flowers—Private Growers.

Amaryllis, 25 spikes, 1st, Mrs. D. Willis James.

Antirrhinum, 25 spikes, pink, 1st, H. M. Tilford, gard. J. Tansey.

Antirrhinum, white, 1st, Mrs. W. E. D. Griswold, Lenox, Mass., gard. A. J. Loveless; 2d, John Wanamaker.

Antirrhinum, yellow, 1st, Percy Chubb.

Antirrhinum, any other color, 1st, Percy Chubb; 2d, Mrs. W. E. S. Griswold.

Freesias, 1st, W. E. Kimball, Glen Cove, gard. James McCarthy; 2d, Peter Hauch, E. Orange, N. J., gard. Max Schneider.

Pansies, 10 sq. ft., 1st, Adolph Lewisohn.

Stocks, white, 1st, H. M. Tilford; 2d, Mrs. W. E. S. Griswold.

Stocks, pink, 1st, W. W. Heroy, Stamford, Ct.; gard. Abraham Wynne; 2d, James Linane, Rye, N. Y.

Stocks, any other color, 1st, Henry Goldman, Deal Beach, N. J., gard. Anton Bauer; 2d, John Wanamaker.

Violets, double, 1st, Richard Langle, White Plains, N. Y.

Violets, single, 1st, Percy Chubb; 2d, Mrs. D. Willis James.

Six vases of cut flowers in six varieties, not already provided for, 1st Percy Chubb; 2d, Henry Goldman.

SECTION X.

Miscellaneous Cut Flowers—Commercial Growers.

Antirrhinum, 50 spikes, pink, 1st, Frank Bombauer, Oaklawn, Philadelphia, Pa.; 2d, Geo. E. Buxton, Nashua, N. H.; 3d, F. R. Pierson Co., Tarrytown, N. Y.

Antirrhinum, white, 1st, Rumson Greenhouses, Oceanic, N. J.; 2d, F. R. Pierson Co.

Antirrhinum, yellow, 1st, W. H. Sloan, South Road, Poughkeepsie, N. Y.

Antirrhinum, any other color, 1st, George E. Buxton.

Gardenias, 25 blooms, Frank J. Dolansky, Lynn, Mass.

Mignonette, 1st, August Sauter, Nyack, N. Y.

Stocks, pink, 1st, John Reimels' Sons.

Cut flowers in six varieties, not already provided for, 1st, W. A. Manda.

SPECIAL AWARDS.

Special awards were made as follows:

Geo. Schlegel, Bay Ridge, gard. S. G. Milosy—50 callas in pots and ferns, silver medal.

A. Bieshke, Noroton, Conn.—6 pots hydrangeas one-year-old, in variety, silver medal; Hybrid freesias in many colors, cert. of merit.

Julius Roehrs, Rutherford, N. J.—Two groups of Gloriosa, gold medal; two specimen orange trees, cert. of merit; miniature landscape, 200 sq. ft., gold medal.

Peter Hauck, East Orange, gard. Max Schnider—Violets, cert. of merit.

Mrs. Oliver Hoyt, Stamford, Conn., gard. Jas. Foster—Asparagus Sprengeri, silver medal.

Secaucus Exotic Nursery, M. Mutillod—Pair Imperial standard bay trees, certificate of merit; box wood and standard bay trees, certificate of merit.

Mrs. B. B. Tuttle, Naugatuck, Conn., gard. M. J. Pope—New Laelio-Cattleya, certificate of merit.

Victor S. Dorval's Sons, Woodside, N. Y.—Orange tree in fruit and flower, silver medal.

Mrs. Bradshaw, Hartford, Conn., supt. John F. Huss—New Geum, certificate of merit.

Julius Roehrs Co., Rutherford, N. J.—Polypodium glaucophyllum crispum, silver medal.

Richard Langle, White Plains, N. Y.—Single violets, cert. of merit.

Clement Moore, Hackensack, N. J.—Group of orchids, gold medal, silver medal and certificate of merit.

A. N. Cooley, Pittsfield, Mass.—Sophro-Cattleya Thwaitsii, gold medal awarded by Horticultural Society of New York.

W. A. Manda, South Orange, N. J.—Anthurium bearing large spathe of pure white and green, cert. of merit.

Thomas Roland, Nahant, Mass.—Specimen Erica melanthera, gold medal.

The Silver Medal Sweepstakes in Section R was won by Cottage Gardens Co., with Carnation Matchless, and the bronze medal by Cottage Gardens Co. with Mrs. C. W. Ward.

THE TRADE DISPLAYS.

The largest booth in the trade section was that of A. N. Pierson. Here all the plant and flower specialties of this enterprising concern were displayed in large numbers and there was a big crowd in and around the booth constantly. It was one of the busiest places in the hall.

The leading seed houses had trade booths of greater or less extent, some of them being fitted up elaborately with brilliant masses of spring flowering bulbs, and a good business was done by all in orders for bulbs, lawn seeds and garden sundries.

The fertilizer and insecticide houses made a strong showing and had no trouble in getting the attention of the visiting public.

Following is a list of the various firms having either booths with displays of more or less extent or with desk space. A good business was reported by all:

Alphano Humus Co., New York, samples of their product, with illustrations showing results from the use of same.

Revere Rubber Co., display of Revere Hose.

Reed & Keller, a very extensive display of florists' vases, baskets and designs all in silver finish.

Stumpp & Walter Co., large display of Spring flowering bulbs, etc., and various lawn grasses sprouted in pans, all labeled.

Peters & Reed Pottery Co., pottery, mission finish.

New York Stable Manure Co., samples of their specialty.

John Lewis Childs, Summer flowering bulbs and fine group of Calla Elliottiana.

Bon Arbor Chemical Co., samples of their products.

Russin & Hanfling, florists' baskets.

Fred. A. Stokes Co., books and framed illustrations.

Gardencraft Toy Co., garden specialties for children.

S. S. Pennock-Meehan Co., Philadelphia, a beautiful array of ribbons and baskets.

E. A. Lippman, greenhouse shading.

Benj. Hammond, Fishkill, samples of his products.

Plantlife Company, samples of "Plant Life."

Miller & Doing, Brooklyn, Illinois self-watering flower boxes.

Consumers' Fertilizer Co., New York, a large booth with display of Mak-Gro Plant Food.

B. Hammond Tracy, gladiolus bulbs.

A. Cowee, gladiolus bulbs.

Schloss Bros., an elaborate exhibit of florists' ribbons.

Coldwell Lawn Mower Co., Newburgh, a large exhibit of motor mowers in various models.

Joseph Heacock Co., Wyncote, Pa., splendid Kentias and Cybotiums.

R. M. Ward & Co., illustrations of Japan lily fields and pertinent subjects.

Kroeschell Bros. Co., Chicago, Kroeschell boilers.

Charles H. Totty, Madison, N. J., samples of Shawyer Roses and other specialties.

R. J. Irwin Co., trade plant samples.

Julius Roehrs Co., Rutherford, N. J., extensive collection of greenhouse plants.

J. M. Thorburn & Co., extensive show of flowering plants and bulbs.

International Nurseries, sample conifers.

Joseph Breck & Sons Corp., Boston, Huebner's Champion Winter-Flowering Antirrhinum.

Hitchings & Co., greenhouse fully equipped with slate and iron benches; sectional boiler.

Pierson U-Bar Co., complete greenhouse, the benches filled with flowering plants and the booth enclosed with hedge and garden border.

Lord & Burnham Co., complete greenhouse, benches and heating appliance.

Metropolitan Material Co., Brooklyn, section of greenhouse and iron gutters.

Lager & Hurrell, a very tasteful and original display of Orchids.

F. R. Pierson Co., Tarrytown, N. Y., collection of specimen conifers, Killarney Queen roses, Nephrolepis, etc.

W. A. Manda, So. Orange, N. J., specimen conifers and decorative plants.

Haerens Co., new azalea, Pink Pearl.

Thos. Meehan & Sons, pergola booth with little conifers.

Knight & Struck, beautiful collection of New Holland plants, Cape Heaths, etc.

Hontsch & Co., greenhouse boiler.

Gt. Van Waveren & Krayff, illustrations of their products.

Carnation Supply Co., models of carnation supports.

Bobbink & Atkins, Rutherford, N. J., tubs and rustic furniture. Very extensive collection of bays and trained buxus specimens.

Empire Specialty Co., flower holders.

J. L. Dillon, young roses.

Doubleday, Page & Co., samples of their publication.

A. T. De La Mare Co., samples of their publications.

Horticulture Publishing Co., samples of Horticulture.

Stuyvesant Co., samples of their publications.

Kennedy & Hunter, W. E. Marshall & Co., Wertheimer Bros. and others, desk space.

PHILADELPHIA SPRING SHOW.

The main hall was well filled with a good collection of spring flowers, mostly hyacinths, tulips and daffodils. All the best of the newer varieties were shown in excellent culture, and the competition between the different gardeners was very keen. The principal prize winners were: P. A. B. Widener, gard. Wm. Kleinheinz; Thos. P. Hunter, gard. Joseph Hurley; John W. Pepper, gard. Wm. Robertson; C. B. Newbold, gard. Samuel Batchelor; George H. McFadden, gard. David Aiken.

The center of the hall was well set off by two good-sized groups of flowering plants—the Robertson group containing wistaria, azalea, anthurium, genista, Cineraria stellata, hydrangea, acacia and Farquhar rose—all beautifully grown specimen plants. The Kleinheinz group contained genista, Pink Pearl rhododendron, Boronia elatior, Marie Le Graye lilac, Acacia Drummondi and Azalea Indica alba—the latter one of the most striking specimens ever seen, being 5 ft. high and 6 ft. diameter and one mass of bloom.

Other features of the main hall were well-done lots of the newer varieties of pink and white spireas; splendid specimens ever seen, being 5 feet high and 6 feet diameter and one mass of bloom.

Other features of the main hall were well-done lots of the newer varieties of pink and white spireas; splendid lots of Easter lilies and callas; a grand showing of wallflowers from Robertson in all colors and fine big specimens nicely flowered; standard heliotrope, fine pots of Primula obconica and lily of the valley. The front of the stage was, as usual, devoted to offerings for the Dreer prizes, which called for a quite different and very interesting class of plants and proved of fine educative interest. These exhibits covered excellent specimens of such things is Iberis sempervirens, iris of sorts, hardy ferns, spireas, hardy pinks, snowdrops, dielytra, polyanthus, anemone, etc., and a fine showing of hardy roses in pots.

A plant of Amorphophyllus Rivieri, five feet high, was exhibited by Capt. S. R. Vaughan, of West Philadelphia. Dreer had a good display of lawn requisites and a picture gallery of dahlias and gladioli, also spring suggestions. Michell's trade display was confined mostly to lawn mowers and lawn grass. All the premiums were put up by the following well-known seed houses: Hosea Waterer, Henry F. Michell Co., and Henry A. Dreer. The judges were Robert Craig, A. B. Cartledge, Chester Davis and William Graham.

The Lord & Burnham gold watch was awarded to William Robertson for his group of flowering plants.

John H. Dodds sent in a handsome lot of carnations on the second day, not for competition, but to show they were still alive around Lyndhurst. They were extra fine flowers, and proved a great attraction.

VISITORS' REGISTER.

Boston — Wm. Currie, Milwaukee, Wis.

Cincinnati—W. W. Stableton and sister, Manchester, Ohio.

Buffalo — August Poehlmann and George Asmus of Chicago; Sidney Green of H. Bayersdorfer & Co., Philadelphia.

Chicago: A. H. Eddy, Sault Ste. Marie, Mich.; W. E. Blackburn, Evansville, Ind.; Frank Farney, representing Rice Co., Philadelphia; Miss Rennison, Sioux City, Ia.; L. L. Lamborn, Alliance, O.; Geo. W. Smith, Cleveland, O.; Miss Ella Kaber, La Porte, Ind.; H. A. Reichert, Michigan City, Ind.; Herman Schutz, Menominee, Mich.

Philadelphia — F. Cooper, Wellington, New Zealand; John Walker, Youngstown, O.; Edwin A. Seidewitz, Baltimore, Md.; Raymond Kister, Williamsport, Pa.; Charles Loechner, New York City; Antoine Leuthy, Roslindale, Mass.; George Asmus, Chicago, Ill.; M. Henry Lynch, West Grove, Pa.; August Poehlmann, Chicago, Ill.; George H. Cooke, Washington, D. C.; Samuel McClements, Pittsburgh, Pa.; Fred. M. Isenberg, Huntington, Pa.; Mrs. Mary Johnson, Baltimore, Md.

New York—Theodore Wirth, Minneapolis; J. J. Hess, Omaha; John Evans, Richmond, Ind.; A. F. J. Baur, Indianapolis; George Asmus, V. Bergman, Chicago; W. F. Kasting, Mr. and Mrs. W. J. Palmer, J. F. Cowell, Buffalo; Peter Crowe, Utica; P. R. Quinlan, Syracuse; Thos. Tracy, Ed. Tracy, W. C. Gloeckner, Albany; Phil Breitmeyer, Detroit; Mr. and Mrs. J. A. Peterson, Cincinnati; Wm. Falconer, Pittsburgh; George C. Watson, Robt. Craig, Jr., E. A. Stroud, S. S. Skidelsky, Philadelphia; W. F. Gude, Geo. Cooke, F. H. Kramer, J. Henry Small, H. W. Lawton, Washington; E. A. Seidewitz, Baltimore; J. F. Huss, Hartford; G. X. Amrhyn, John Champion, New Haven; G. A. Dennison, San Francisco; J. S. Hay, Providence; F. J. Dolansky, Wm. Miller, Lynn, Mass.; P. Welch, W. J. Collins, F. N. Sanborn, W. J. Stewart, Boston; E. Allan Peirce, Waltham, Mass.; Thomas Roland, Nahant, Mass.; C. S. Strout, Biddeford, Me.; A. E. Thatcher, Ed. Kirk, Wm. Burton, Bar Harbor, Me.; E. J. Norman, A. J. Loveless, Lenox, Mass.; Geo. W. Wyness, Pride's Crossing, Mass.; Wm. Anderson, Lancaster, Mass.; W. H. DeGraaff, Leiden, Holland; D. McKenzie, Chestnut Hill, Mass.; A. McKenzie, Highland Falls, N. Y.; John Eliot, Norfolk, Conn.; C. Warburton, Fall River, Mass.; A. Meikle, Thos. J. Gibson, Newport, R. I.; L. J. Reuter, Mr. and Mrs. S. J. Reuter, Westerly, R. I.; A. N. Pierson, W. R. Pierson, Cromwell, Conn.; M. H. Walsh, Wood's Hole, Mass., Herman Bartsch, Waverley, Mass.; Wm. Nicholson, Wm. R. Nicholson, S. J. Goddard, Framingham, Mass., and many others.

BANQUET TO THE S. A. F. EXECUTIVE BOARD



Just half a hundred of Boston horticulturists and invited guests sat down to a bountiful repast and royal good time at the Parker House, on Thursday evening, March 19. The accompanying picture gives some idea of the scene, except that the vases of flowers with which the table was adorned were temporarily set one side, so that the features of the good-looking gentlemen present might be fully in sight.

After the menu had received due attention, J. K. M. L. Farquhar expressed pleasure on behalf of the Boston fraternity at having a visit from the Executive Board after an interim of 24 years and introduced President Theodore Wirth, as the first speaker. Mr. Wirth got a great and noisy reception. In his kind remarks about Boston he referred affectionately to the work of the late J. A. Pettigrew and appreciatively to the gardeners' share in Boston's horticultural preeminence. He asserted that every one associated with the S. A. F. gets back with compound interest all he ever puts in.

John H. Dillon, the new chairman of the Boston Park Commission was next introduced, W. J. Stewart participating in the introduction with a few remarks on his long association and acquaintance with Mr. Dillon, they having worked together as boys in a flower store many years ago. Mr. Dillon made an eloquent address, declaring his pride in being a gardener and his sincere desire to administer the affairs of Boston's great park system with zeal and efficiency. He gave assurance of his sympathy with the work of the S. A. F., and presented officially the regrets of the Chief Executive of the city in his inability to be present.

Alexander McGregor of the Governor's Council, presented the greetings of the Commonwealth. He had a word of appreciation for the happy occasion and for the optimistic man who keeps on the sunny side of the street. It was an eloquent address and uproariously applauded.

W. F. Kasting spoke for the toast "Our Country." He made a gloriously patriotic speech, paid high compliment to Boston floriculture and said he would always retain sweet memories of his visit..

The contest of oratory was next entered by W. F. Gude, who made an address full of altruistic sentiment and praise of the spirit of organization and united effort and closed with the presentation of resolutions of thanks by the visitors to their Boston hosts, which the visitors adopted with great enthusiasm.

J. J. Hess, presented the compliments of Nebraska and said that the advice "Go West young man" still holds good.

Secretary W. P. Rich of the Mass. Horticultural Society spoke kindly greetings from that body, 83 years of age, yet still young and full of progressiveness, determined to make its future history as great and glorious as its past has been. He said that the S. A. F., will be known more than in the past, after this enthusiastic convention.

W. J. Kennedy responded happily for the Gardeners' and Florists' Club, of which he is president. E. Allan Peirce spoke for the flower markets. J. F. Huss brought a cheery message from Connecticut and spoke diplomatically of the great mission of the florists' clubs. A. E. Thatcher was ready with a good story and a healthy boost for what Maine is going to do for the Convention.

P. Welch the next speaker, was given a grand ovation. His speech was full of wit and constructive suggestion. He was hailed as "The man of the hour." Deputy Park Commissioner, J.

B. Shea, whom everybody loves, was then called upon and was greeted with prolonged applause. He gave a little history of Mr. Pettigrew's great work in tree planting for Boston. He promisted on behalf of his associates and the city authorities that Boston would do her best for the Convention. August Poehlman extended congratulation and felicitation on the promising outlook. George Asmus followed in a similar vein and applauded the flower show as one of the greatest horticultural forces.

Wm. Burton, Ed. Kirk, J. A. Peterson, John Evans and lastly Thomas Roland had a few brief words. Mr. Roland declared that the convention is only a plaything as compared with the great outdoor garden which is planned as an adjunct this year.

MAIL IMPORTATIONS OF PLANTS FORBIDDEN.

An order issued by the Second Assistant Postmaster General, December 16, 1913, prohibits the importation from foreign countries through the mails of all plants and plant products for propagation, including seeds, except field, vegetable, and flower seeds. This prohibition, therefore, applies to bulbs, roots, and tubers, and to all seeds of trees, shrubs, or other plants, except only field, vegetable and flower seeds.

Cotton seed, which would be rated as a field seed, is, however, prohibited entry into the United States from any foreign country except certain States in Mexico, by Quarantine No. 8, and this prohibition, therefore, naturally extends to mail packages as well as to shipments by other carriers. Domestic Quarantine. No. 9 also prohibits the movement of cotton seed from Hawaii to the United States.

Under the order issued by the Second Assistant Postmaster General, nursery stock and other plant products for propagation, except as noted, received in the mails from foreign countries are to be returned from the post office of receipt, as prohibited, to the country and place of origin.

This restricts the carriage of such products from foreign countries to other means, such as by express or freight. Importations by these methods pass through the customs office in the normal way, and are under complete control. Postal sendings are entered under an entirely different system and necessitate examination at any little post office throughout the United States.

It is possible to transmit many injurious insects and plant diseases in lots of plants or seeds sent through the mails, and the inspection of such mail sendings is an impossibility without a vast army of inspectors. It was, further, found necessary to make the restriction very broad, much broader than the original definition of nursery stock, for the reason that foreign shippers, and postmasters as well, were quite unable to make the distinction between nursery stock and herbaceous plants, etc., and the only safe course was to exclude all plants from mail sendings with the exception of the seeds noted, which are deemed to carry comparatively little danger of introducing insect pests or diseases.

C. L. Marlatt, Chairman,
Federal Horticultural Board.

GROWING SWEET PEAS

A Paper by Howard Nichols of Yonkers, N. Y., before the Yonkers Horticultural Society.

The Lathyrus is divided into two classes—the annual and the perennial. The latter, which is seldom seen in this part of the country, is used to cover a trellis or pergola. It is very easily grown and may be propagated from cuttings taken in the autumn. There are many varieties of perennials, and some have from six to twelve flowers on one stem. The flowers grow close together and the stems are inclined to be short. The flowers lack good color, and for this reason, it has never become a prominent flower.

The annual sweet pea is becoming very popular, both under glass and out of doors, and great advancement has been made in the past few years as to length of stem and size of flowers.

There are many out door varieties and so easily grown that they are found in almost every garden. The writer knows of no other flower where brighter colors are produced.

The sweet pea originated in Sicily and was sent to England over two hundred years ago. Very little was done to improve its size, until 1870, when Henry Eckford took up the work. In 1877, Thomas Laxton engaged in improving on the sweet pea, and was quite successful. W. Atlee Burpee was about the first extensive grower in America, and one who produced some very fine exhibition novelties. At the present time, most of our sweet pea seeds are grown in this country.

A few years ago, the well-known variety "Countess Spencer" and its sport "Helen Lewis" were put on the market. From that time, the Spencers flourished and are now considered the best varieties we have. Since the Sweet Pea Society of America was organized, great enthusiasm has been shown among the sweet pea growers in this country.

Sweet Peas Under Glass.

The first and most important requisite when growing these flowers under glass, is to secure a light and airy house, as good results can only be obtained where there is light, air and sunshine. They may be grown either in pots, boxes or benches, but do best when planted in the ground, with a border such as is used in a vinery, made with a drainage of brick and stone, six or eight inches deep, and filled in with about eighteen inches of loam, using plenty of cow manure and ground bone. Sow seed in rows running north and south, so the sun can shine from both sides. They will do best in a cool temperature, about 45 degrees at night, with a raise of 15 to 20 degrees with sunlight. Always give plenty of air, if possible. As peas are subject to red spider, it is always well to keep plenty of moisture in the house. An occasional spraying will be found beneficial. Always watch for green fly, as this insect, if allowed to remain, will soon weaken the plants.

There are a great many varieties that do well under glass. Blanche Ferry is a very old variety and is still in cultivation, but in looking over the list, we find many fine varieties to force, especially among the Unwins.

For the Garden.

Those who desire early sweet peas for the garden will find great advantage in the fall-sowing method. They will not only bloom early, but be strong and of good color. In order to have full success with this method, small sashes are found to be the best covering for winter, although they can be grown successfully, covered with plain spruce plank.

One wishing to grow peas by this method, should first select an open space in the highest part of the garden, where water will not lie and freeze in winter, also where a hydrant is close at hand, as they will require an abundance of water in summer. When preparing the ground in the autumn, care should be taken to dig the ground very deep, putting in plenty of well rotted cow manure. The writer prefers to plant in double rows, six inches apart. When the vines become high enough, they will form a wide row and the air can circulate throughout it better than if planted in one row.

Place the rows four feet apart, running north and south, and plant the seeds three inches deep, about Oct. 15. They will be safe without protection until Nov. 10, when a board should be placed on each side of the double row, and the sashes or boards, whichever the grower wishes to use, should be put on at night, only when frost is expected, until about Dec. 1, after which date sashes should remain on night and day, giving plenty of air during the day. When the severe weather sets in, it will be necessary to fill in between the boards with long straw and manure from the horse stable. When the temperature drops to about twenty-five at night it will be necessary to cover the sashes with long straw, which should be taken off during the day to let in light and air.

It is always well to give plenty of air, as this will keep the plants strong and enable them to stand the cold weather. Do not allow the plants to lie on the ground in winter; better use small brush to hold them erect. The most important part is not to remove the sashes too early in the spring. April 20 is time enough to remove sashes for the summer. Although they will need to be taken off during warm weather, it is not wise to put them away until this date. They will then be ready for the brush. After staking, it is well to dig the ground between the rows, as it will be well trodden down after the winter's work. Fork the soil up around the vines, so as to form a trench between the rows, which will help to hold the water. Later fill this trench with manure to retain the moisture during hot days. Frequent watering will be found beneficial; never allow them to become too dry. As we have found them to be strong feeders, we advocate feeding once each week with sheep manure or nitrate of soda, or

both. This will induce them to spread their wings and lengthen their stems.

Desirable Varieties.

There are many new varieties coming before us each year. We have found the following twenty-five to do well this year: Senator Spencer, Lovely Spencer, Tennant Spencer, Mrs. Sankey Spencer, America Spencer, Primrose Spencer, Mrs. Routzahn Spencer, Duplex Spencer, Aurora Spencer, Flora Norton Spencer, Appleblossom Spencer, George Herbert Spencer, King Edward Spencer, Black Knight Spencer, Mrs. Walter Wright Spencer, Salopian, Florence Nightengale, Miss Willmott, Queen Victoria, Gladys Unwin, White Wonder, Bolton's Pink, Queen Alexandra, Helen Lewis, Lady Grissel Hamilton.

Many fine peas have been grown by planting in pots or boxes in graperies or frames. Those who do not have a greenhouse can start them early in frames, by planting in flower pots. A good way to grow early peas is to have boxes, six inches wide, six inches high and three feet long, with a movable side; plant seeds in these boxes Feb. 1st and keep in a cool house with plenty of air and sunshine, to have them grow strong and healthy. Plant out in spring as soon as weather will permit, and support them as soon as possible. They can then be treated in the same manner as those planted in the autumn.

A good way to grow peas, for one who wants cut flowers with little trouble, is to select a warm spot in the garden in autumn and dig in a little lime and cow manure. When prepared, cover this space with eight inches of leaves, after the first severe frost. About March 1st, some fine day, remove the leaves and dig once more, after which plant the seed four inches deep. As the seed is very slow to start, they will be coming through the ground after all danger of frost is over, and will have a chance to grow strong while the cool weather is with us. As we all know, the extreme heat we have to contend with during the summer months is very injurious to sweet peas. It has been the cause of many failures.

PERSONAL.

L. J. Muller has accepted a position as gardener to Mr. Howard Phipps, Westbury, N. Y., from April 1, 1914.

Thos. Windram, Cincinnati, has returned after an extended stay at the Lake Shore Ferneries at Leesburg, Fla.

James McHutchison of New York starts on March 28 on a trip to New South Wales and South Africa. Will be away about seven months.

Arthur Kowalski of Slattery & Beyers, Buffalo, was operated on for appendicitis on Monday last and word has been received that the operation was successful and he is doing nicely.

A vicious bulldog was strangled to death, last Monday by George Metz, a florist of Corona, L. I. Metz saw the dog attack a woman on Lincoln street and went to her aid. He was attacked by the animal, but got a good grip on the dog's throat and choked the animal to death.

THE MAKING OF A COUNTRY HOME

The following paper was read before the Horticultural Club of Boston about three years ago by the late J. A. Pettigrew, superintendent of the Public Parks of Boston. In the recent meeting of the S. A. F. Executive Committee in Boston, Mr. Pettigrew's name was frequently mentioned in connection with the plans for cooperation by the Park Department with the S. A. F. for an outdoor garden display next August. For this reason and because the time for garden planting is at hand, and especially because anything that Mr. Pettigrew had to say was always sound and inspiring, we give place here at this time to his words of wisdom, believing that many of our readers will find it interesting and profitable.

Among people of wealth and leisure a widespread interest is being felt in the subject of country life, and the founding of country homes. On every hand homes can be seen already established or in process of development by those whom the love of country has induced to enjoy its advantages and delightful associations as an alternative to residences among walls of brick and mortar which so loudly echo the turmoil and strife of city life. The busy man so immersed in business that he can spare but little thought to the subject, or who feels that the time has not arrived for its consideration, these notes will not interest. There are those, however, having partial or abundant leisure and to whom country life appeals who would welcome the idea of engaging personally in the work of making a country home. It is for such that these notes are compiled.

The fascination of the work is so great that a little sustained attention to it soon develops into a strong interest. A more intimate acquaintance with nature results, and with it a broader appreciation of her wonderful ways.

The advanced state in which horticulture is to be found in the British Isles today, and the charm, beauty, and dignity of so many of the old homes to be found there, are due largely, no doubt, to the intense personal interest taken in their growth and development by the owners. This interest frequently expands into a close technical study of plant life. Not only among the proprietors of old estates which are clothed with centuries of horticultural traditions is the love of the home and garden rife. It extends to the farmer and cottager. The farmer with pride will call your attention to the fine oaks or maples in his hedgerows, while the cottager will be hard pinched indeed if he does not find the opportunity to clothe the walls of his cottage with climbing vines, or his windows with boxes of flowering plants. It is the love for gardening, so deeply implanted in the heart of the Britisher, which gives to England one of her greatest charms.

New England is so wonderfully endowed with the beauty that Nature has implanted that the choice of a home site, it might be said, need only be governed by geographical considerations or convenience of location in its relation to transportation. Land, too, suitable for country estates is plentiful and cheap.

The character of the flora is distinctly and charmingly interesting. Wooded hills and valleys abound, while the soil is so well adapted to plant life that it is easily possible with good cultivation, to produce a growth of hard wood trees, 30 feet in height, in a dozen years. Pines also, 20 or 25 feet high, may be grown in the same space of time; so that if the prospective homemaker is not able to secure a fair proportion of natural woodland as a part of his estate, he need not be discouraged. He may take comfort in the fact that he can plant where he will and create his own woodland, which often results more satisfactorily than the effort to bring into harmony with his design a piece of existing woodland which uncontrolled nature has distorted or marred or that may not be so located as to permit of blending it into natural harmony with the surroundings.

The ground for the country home having been selected, be it ten acres or be it three hundred acres in extent, fidelity to nature should be the keynote governing its development. The motive impelling the creation of the home is a wish to be associated with nature, therefore have the home express nature faithfully. Presumably the builder of a country estate is one of artistic taste or instincts who is qualified to plan the lines of the necessary walks and roads so that they may be convenient for their purpose yet unobtrusive, so that there shall not be one linear foot in excess of absolute requirements and so that they shall be designed as much as possible to lie within the borders of the woodlands or intended plantations of trees and shrubbery; for walks and drives do not in themselves enter into the landscape design excepting as useful agents which may be masked by planting. If the home-builder will in addition locate his home in its proper relation to convenience, to the command of pleasing views, and to its setting, existing or to be made, he may, with the help of a copy of Downing and a practical, intelligent gardener as superintendent of the work, and the occasional services of an engineer where exact lines and grades are necessary, have the enjoyment and pride of being the creator of his own home. An alternative could be the employment of a competent, well-experienced landscape gardener to make a design for the estate, when with the staff before enumerated the owner can enter upon the work of construction.

In planning home grounds it is a good thing to remember that the moving of earth is one of the most expensive of works, a fact that is too often overlooked and much unnecessary expense is thereby incurred. The plan in its topographical features should be bent to fit the ground as closely as

possible; the relation of soil and subsoil should not be disturbed by grading, if it can be avoided. In the removal of soils to other places it is essential that they be restored to their original relation; that is, with the subsoil below and the loam on top. The expense of such manipulation is more than double the cost of straight excavation work. A large amount of thought is not too much to expend in considering the removal of a very small amount of earth; that is, if it is expended in the effort to find some way in which the removal can be avoided. A little change in walk or grade or some other modification of an idea will often accomplish this result.

Attention cannot be given too soon to such natural woodlands as the estate may possess. These areas are generly made up in great part of thick growths of trees, which have injured each other, more or less, by close contact; natural perhaps in having sprung from the soil without the aid of man, but having, nevertheless, been subject to such unnatural conditions as to upset nature's balance. The first operation in a piece of thick woodland desired to be retained for natural effect should be that of thinning. Trees of individual merit or beauty should have interfering trees removed to allow of their development.

In places, areas of greater or less size may be found entirely filled with trees, which, by reason of overcrowding, are so far impaired that they can never recover their lost beauty. In such cases, a free cutting should be made, to allow light to penetrate, so as to permit of the growth of saplings or newly planted material below, and further cuttings made from year to year, as they may be needed. Judicious thinning of all trees should be made when they interfere with the growth of better ones, noting at the same time, and retaining picturesque groupings and pleasing combinations of trees, preserving, meanwhile, a natural appearance in the general mass, and encouraging as much individuality as possible without impairment of natural woodland effect. This thinning will permit of the passage of light to the undergrowth, which will respond quickly to its influence and will materially enhance the beauty and naturalness of the woodland. A woodland so dense as to prohibit the growth of vegetation on its floor is dreary and monotonous.

The improvement in the woodland by thinning is soon noticeable. The branches, instead of struggling upward in search of light, spread out to such an extent that it quickly becomes apparent that the work of the axe whether in woodland or plantation is never completed: it is vandalism to lay it aside. The best time for making selections for permanent trees, in plantation or woodlands, is in the summer. At this season the condition of the trees can be more easily ascertained, as their relative position and needs are more apparent than at any other time.

The treatment of old woodlands includes the careful cutting from the trees of dead or diseased limbs. A large proportion of trees come to an untimely end because of the decay introduced into the larger limbs and boles, through the stumps of dead limbs or branches. Each cut should be made close and even with the bole or limb where the severance is to be made, and well painted over, renewing the coat when necessary until the wound is healed.

No work in the development of a country estate should take precedence over that of planting, other than the work necessary to make the ground intended for plantation available. Roads and walks are of secondary importance in comparison. As a general principle, it may be said that a bordering belt of trees should be planted on the boundaries of the estate. This may vary in width in conformity with the topography of the ground, or may be omitted when desirable to obtain cross-country views. This omission, however, should only be done in the case of the opening of views of exceptional interest or beauty. The bordering plantation also serves as a screen to shut out undesirable features from within. It gives, too, a sense of seclusion and possession, which in a country home is desirable.

Another principle in planting, is that, generally, it is desirable to plant on the high grounds and lay down to turf the lower grounds, thus accentuating the topographical variation. Such planting, however, must be subject to the preservation or creation of pleasing views within the boundaries of the estate, or the shutting out of undesirable features.

The preparation of the ground for planting in masses should be done during the summer previously to planting, by plowing and deeply sub-soiling. This should be repeated two or three times to produce a good condition of mellowness in the soil. Spring planting is preferable in our northern latitudes. Fall planted trees, unless put in early enough to have made roots to sustain them, are apt to dry out by evaporation during the long months of freezing.

A good method is to make selections and purchases in the fall, which can be heeled in and protected from drying winds. Then planting can be commenced much earlier, unhampered by the delays of spring shipments from nurseries.

In planting for mass effects, plant thickly; 12 feet apart is not too close: the ground is the more quickly shaded. The trees also shelter each other. Thin out by transplanting, or even by cutting out whenever the branches interfere. Under no consideration permit injury to be done by over-crowding. This method has many advantages; it provides shade for the ground and for the trunks of the trees; it permits of easy and cheap cultivation of the ground by horse machinery; it is a convenient nursery from which finer trees can be secured each season than can be obtained from commercial nurseries; and it, also, gives a greater number from which to select the permanent trees.

It is well to plant the intended permanent trees at a distance of from 30 to 50 feet apart, according to expective development. A second or even a third arrangement might be made, by using different kinds of trees in each. The advantage of this plan is that any one of the three arrangements may be adopted and retained when thinning. It is not desirable to plant shrubs throughout new plantations of trees, as they interfere with the free use of the cultivator, which is a valuable adjunct to the diligent planter desiring vigorous and rapid growth. Cultivation should be maintained for a period of three to five years, when shrubbery or ground cover may be introduced. Shrubbery may be set out on the borders of the plantations when the trees are planted, of such wood bordering plants as shad bush, red bud, witch hazel, viburnums, cornels, etc.

Of the kinds of trees to plant, all our native trees are good, although some are better adapted to our climate than others. Of exotic trees we can always find a place for the white willow, the European beech or the European elm, and others. The planting of a New England country estate should consist largely of oaks, maples, beeches, birches, hickories, red cedars, pines, hemlocks and spruces; for appropriateness and beauty these cannot be excelled. Exclude from the planting lists exotic trees and shrubs which do not blend with native material, and above all bar out variegated sports and monstrosities, which have no place in planting for natural effects.

The selection of a location for the house is an important matter for consideration. It would be difficult to frame rules for guidance where so many combinations of topography or other existing features are apt to occur, each one a study in itself, to be solved on the ground. Let us take one example, however. Let it be that of level open ground, then let us, if possible, place the house with its back opposite to the most uninviting aspect, and behind the house plant a mass of trees for a background, and irregular clumps off from two or more of the corners, for support to the house. Behind the background of trees have the kitchen garden. This garden may be a walled garden, with espaliers, the walls and espaliers for training fruit trees.

It may have also flower borders between the espaliers and the box-edged walks. In that case the espaliers could be used for training flowering vines, delightfully quaint, while they would

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be very convenient to the house for the picking of flowers and fruit. In this garden may also be placed a low fruit house or two, and forcing pits or low houses for vegetables. Such facilities for providing early fruits and vegetables are, I think, desirable and even necessary, in view of the long winter season; but I am of the opinion that the erection of ranges of houses for the growth of ornamental plants, or cut flowers for use in the house, is an expensive mistake. Can we not have an abundance of flowers from the garden? Commencing early in spring with snow drops, and ending with the hardy asters and chrysanthemums with the fall frosts, what a succession of beautiful flowers we have. Thence on, until spring again, we have our myriads of fruits and berries to carry on beauty's procession, than which nothing can be more appropriate for the season.

Behind the background near the vegetable garden can be placed the stables and any other necessary building or house convenience. The whole can then be screened by a heavy plantation of trees or shrubbery of varying outline.

From at least two points of advantage within the house, long vistas of simple open turf, stretching away into the distance could be made. The boundary lines of these views should be broken up into deep bays and bold points of foliage, the lines of which again could be opened for lateral views.

Judicious planting of vines should be made against the house: for example, wisterias or bignonias at the corners, or at the porches or other projections, and ampelopsis and evonymus against flat portions of the facade, but all sparingly. The effect should be that the house supports the vines, which in turn soften the architectural lines; not that the vines are a support to the house or that the architecture needs to be hidden—breathe it not—sometimes that were better. Procumbent shrubs, too, planted along the base line at intervals will tend to soften the junction of turf and the walls. This shrubbery line may be of varying width. In front of, and under the edges of the shrubbery, spring-flowering bulbs could be planted; such as, crocus, snow-drops, narcissus, etc.

As far back as gardening history can inform us there have been flower gardens round the house. In the old times they were even made within the lines of the moat, for their protection. After civil wars ceased to trouble the land, or in the Elizabethian period, gardens took a place in the open lawn, which occupied the space formerly taken up by the moat. The old gardens were planted with home-like and familiar friends of humble type such as roses, artemesia, monkshood, argemone, marigold, foxglove, hollyhock, etc.—plants famous in song and story. Before the middle of the last century, the fashion changed, the old-fashioned flowers were banished from all gardens of any pretensions, and the florid "bedding out" style adopted. This comprised lines as in the ribbon border, of one color, sometimes hundreds of feet long, also beds in the designs of animals, flags, carpet and rug work, planted with exotic material. Flowers were never prostituted to such base uses as they were during the period of this craze. At its height it seemed as though a gardener's ability could only be measured by his dexterity with the sheep shears, in clipping the various plants into the desired shapes. As in former years, the test would be a hammer, cast iron nails, listing, and an inhospitably cold garden wall. While the old formal style still lingers in places, the tendency in ornamental gardening now is to use tropical plants in beds and borders, with a ground cover of smaller plants.

To return to the house, the flower garden should be on the lawn in front. The ground being level or nearly so, terrace walls are not needed; there is no interruption in the foreground to the view down the vistas of tree-bordered turf. Off at either of the vistas are irregular groups of trees, bordered by rather widely-set shrubbery. Among and in front of this shrubbery the flower garden should be made not in a clearly defined border, but with tall herbaceous plants, such as delphiniums, foxglove, holly-hocks, lilies, etc., planted among the taller growing shrubs at the back. Then down to the front, among shrubs of dwarf growth, let us have phloxes, salvias, hardy asters, pyrethrums, roses, lilies, heleniums, solidago; and in front periwinkle, dwarf asters, iberis, veronicas, and many others almost too numerous to mention.

It is not intended to be understood that a grading down of shrubs or plants from tall at the back to dwarf in front is intended, rather let dwarf run back occasionally in short vistas, as it were, and let tall plants come to the front; the smug insipidity of graded planting can thus be broken up and a more natural tone imparted. Nor should the lines of the border be too clearly defined, let it in a natural manner project itself boldly into the lawn, and again retreat back nearly to the tree line.

It is important in our garden to have space enough between the shrubs to give plenty of room for root growth of the shrubs, and leave sufficient for the needs of the herbaceous plants too. The shrubs will, if carefully selected for their berried effects in winter, or for the coloration of their branches, go far to cover the deficiencies of the bare herbaceous plants at that season.

The planting of a country home grounds opens up a large field for enthusiastic gardeners. On the tree borders of the turfy glades what a field there is for the development of a fringe of beautiful things! Thorns, flowering dogwoods, witch hazel, juneberries and red buds would frame the vistas with a succession of bloom, during a great part of the spring and early summer. And what opportunity for the planting of spring flowering bulbs by the thousand, sprinkling them partly under the branches of the shrubbery and having waves of them spread out over the turf in front. Narcissi, crocuses, snowdrops, scillas, grape hyacinths and fall blooming crocuses would be the kinds suitable. In the herbaceous border May-flowering and Darwin tulips might be added.

A piece of damp woodland bordering a creek could be planted with many beautiful plants including ferns, which love moist and shady conditions, while the borders of the creek would give a home to the Irises, the neisias, senecios, swamp azaleas, andromedas, rhododendrons, loosestrifes and sagittarias.

A pond in the low ground, fully exposed to the sun would give opportunity for the planting of Latour Marliacs' beautiful hybrid water lilies, as well as our own handsome ones. A great wealth of material, besides, is at the service of the water gardener. Then a ravine of rocky dell, possessing a good cover of leafy mulch, suggests the absorbing delight of planting a collection of native ferns.

A bank under partial shade suggests a mass of primroses, while another bank reminds one of the beautiful little Canadian cornel, and how well it would

PREPARE FOR EASTER

The blizzards and the extreme cold weather will make Easter plants very scarce, therefore, don't delay but send your orders in now.

LOOK WHAT WE CAN OFFER YOU—CHEAP AND GOOD

NEPHROLEPIS OR FERNS, Scotti. 5, 5½, 6 and 7-in. pots, 35c, 40c, 50c, 75c to $1.00. **Harrisii.** 7-in., 75c to $1.00. **Giatrasii.** 5½ in., 35c to 40c. **Smithii.** 6 in. pans, 25c, 40c, 50c.

FICUS Elastica (Rubber Plant). 4-in., 5-in., 5½-in., 6-in., 7-in., 25c, 35c, 40c, 50c, 75c.

ARECA lutescens robusta. 4-in., made up of 3 plants, 25c; 5-in., 35c.

KENTIA Forsteriana and Belmoreana. 5½ in. pots, made up of 3 plants, 40c, 50c; single, 5½-in.; **Forsteriana** or **Belmoreana,** 40c, 50c, 60c, 75c; **Forsteriana,** 12-in. tubs, 65 to 75 in. high, $4.00 to $5.00.

COCOS Weddelliana. 4-in., 25c; made up, 30c; 3-in., 15c.

EASTER LILIES OUR SPECIALTY



We have the genuine **EASTER LILY, Lilium multiflorum.** We have the genuine stock, true to name, raised from selected bulbs, furnished by our grower in Japan; 9 to 12-in. bulbs; now in fine condition for Easter sale; 5½ to 6-in. pots, having from 5 to 10 buds to a plant; 10c per bud; plants having less than 5 buds, 12c per bud. **Order Now.** Buds now showing; plants of medium height, just right for Easter trade.

CYRTOMIUM Falcatum (the new brushed Holly Fern). 5½-in., 25c to 35c.

PRIMULA Obconica. In bloom, 4-in., 15c; 5½-in., $3.00 per doz. **PRIMULA Chinensis,** 5½-in., $3.00 per doz.

CINERARIA HYBRIDA. Our best well-known strain, same showing color now, right for Easter; 5-in., 5½-in., 6-in., 25c, 30c, 40c, 50c, 75c to $1.00.

ENGLISH IVY. 3-in., 7c; 4-in., 10c.

FERNS for dishes, Wilsoni only, 2½-in., 4c; 3-in., 6c.

PTERIS Wilsoni. In 6-in. pans, 25c.

HYACINTHS are scarce this Easter, but we put in last fall an immense stock of our own importation, which will make large spikes and cannot be compared with the cheap stuff that is now floating on the market. **Gertrude,** best pink; **La Grandesse,** best white; **King of the Blues,** best dark blue; **Grand Maitre,** best lavender blue. 4-in. pots, staked up, $12.00 for 100 pots. In bloom for Easter week.

TOURNESOL TULIPS, best double red and yellow variegated; **Murillo,** double rose; **Imperator Rubrum,** bright red double; **Couronne d'Or,** double yellow, new, three bulbs planted in a 4-in. pot, $15.00 per 100 pots, $8.00 a doz., in bloom one week before Easter.

DAFFODILS, Von Sion. Best double yellow **NARCISSUS** in existence, three double-nosed bulbs, planted in 5½ to 6-in. pot, $3.00 per doz. pots, out of cold frame, will bloom one to two weeks before Easter.

While we pay the highest price for our Bulbs of Hyacinths, Tulips, etc., from Holland growers, you must bear in mind that we can sell them no cheaper than we do, and we assure you that there is no profit in it for us for the fine stock we sell you.

ASPARAGUS SPRENGERI, 4-in., 10c; 2½-in., 4c.

ASPARAGUS PLUMOSUS NANUS, 3-in., 7c; 2½-in., 4c; 5½-in., 25c. to 35c.

Our specialty, the world wide known pure white **MOONVINE, Ipomoea Noctiflora,** is now ready, 2½-in. pots, $5.00 per 100.

ARAUCARIA Excelsa. 6-in. pots, 4, 5, 6, 7 tiers, 75c, $1.00, $1.25, $1.50.

RHODODENDRONS. 10-in. pans, full of buds, $1.25 to $1.50.

SPIRAEA GLADSTONE in 6 and 7-in. pots, in bud, 30c, 40c, 50c and 75c, right for Easter.

HYDRANGEA OTAKSA, full of foliage, all have buds, just right for Easter sales, 5½, 6 and 7-in. pots, 25c, 30c, 40c, 50c, 75c, $1.00, $1.25 to $1.50. **FRENCH HYDRANGEAS, Mme. Mouillere,** best white, and **Gen. de Vibraye,** bright rose, 30c, 40c and 50c.

BEGONIA GRACILIS LUMINOSA, deep red, in bloom and bud, 5½-in. pots, $3.00 per doz.

BEGONIA ARGENTEA COMPACTA, 4 in. pots, 15c.

NEPHROLEPIS CORDATA COMPACTA, 4-in., 25c.

WE ARE

Headquarters for Azaleas

FOR EASTER BLOOMING



EASTER GREETING!

All the go. The plants of the century. A rival of all Easter plants. For azaleas, go direct to the Azalea belt of Godfrey Aschmann.

Order now. 5 houses full, 10,000 of the choicest plants on hand, ready for immediate shipment. We are the only importers of **AZALEAS,** of which we have made a specialty for the last 25 years. We have the well-known, best double pink **Mme. Van der Cruyssen,** 5½-in., 6-in., 7-in., 8-in. pots, 60c, 75c, $1.00, $1.25, $1.50 to $2.00.

Vervaeneana. Best double rose variegated, large flowering, 5½-in., 6-in., 7-in. pots, 75c, $1.00, $1.25, $1.50 to $2.00; **Niobe** and **Deutsche Perle,** best double white; **Princess of India,** double variegated; **De Schryveriana,** double variegated; **Apollo,** best red; and other well-known varieties, 75c, $1.00, $1.25, $1.50 to $2.00. We have about 100 assorted at 50c, 60c, 75c, $1.00, $1.25 to $1.50.

All goods must travel at purchaser's risk only. No references investigated while the big rush is going on. Thousands of boxes have to be packed in a remarkably short time and only cash will be accepted. Please state if you want stock shipped in or out of pots.

GODFREY ASCHMANN, 1012 West Ontario Street, Philadelphia, Pa.

WHOLESALE GROWER, IMPORTER AND SHIPPER OF POT PLANTS

be adapted for its growth! Here is an ideal spot for Solomon's seal, and over yonder are just the conditions required for the bear berry. And so on.

In such work the home-maker would find his days filled with enjoyment, and the satisfaction of accomplishment, accentuated by a close association with Nature in one of her most charming expressions.

NEW CORPORATIONS.

Burlington, Vt.—Gove, the Florist, capital stock, $20,000. Incorporators, Elmer E. Gove, Cora E. Gove and H. P. Prindle.

Irvington, N. Y.—Martin & Brunger Co., landscape gardeners, capital stock $5,000. Incorporators, Louis A. Martin, John Brunger and James A. Kiernan.

Atlantic City, N. J.—Littman, Florist, capital stock, $125,000. Incorporators, B. H. Kendrick, A. Littman, A. B. Endicott, Jr.

Newark, N. J.—The writer had a very pleasant stroll through the plant of Aug. Begerow, who has three houses, 35x216 feet. He grows about 15,000 geraniums for the spring trade, also a large amount of other bedding stock. Smilax and Asparagus plumosa are also grown and there is a very fine stock of schizanthus for the Easter trade. H. B. McKnight, foreman for Mr. Begerow has a promising carnation seedling, a cross between Winsor and Victory. Another, a cross between Prosperity and Beacon has been named Prince George. It is a rich fringed red, large flower and robust grower, making an immense plant either in the field or indoors.

For Prompt Shipment

Lilium Giganteum	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.

369 RIVER ST., CHICAGO.

March 18, 1914.

Gentlemen:

Please continue with our advertisement for April Number in HORTICULTURE. The result obtained so far has been very satisfactory.

Yours truly,
OLD TOWN NURSERIES,
M. P. Haendler.

HEADQUARTERS FOR EASTER PLANTS

Azaleas, 50c, 75c, $1.00, $1.50, $2.00 each and larger.

Rambler Roses, $9.00, $12.00, $18.00, $24.00 per dozen.

Hybrid Roses, $6.00, $9.00, $12.00, $18,00 per dozen.

Easter Lilies, 12½c per bud or bloom.

Acacias, $1.50 to $4.00 each.

Genistas, 25c to $2.00 each.

Spiraeas, pink and white, 50c, 75c, $1.00 each.

Hydrangeas, 75c to $2.50 each.

Lilacs, $1.50 to $2.50 each.

Geraniums, in bloom, $10.00 per hundred.

Terms, Cash or Satisfactory References

WILLIAM W. EDGAR COMPANY

WAVERLEY, MASS.

EASTER PLANTS

20 HOUSES DEVOTED TO

DOROTHY PERKINS ROSES, $1.25, $1.50, $2.00, $3.00, $4.00, $5.00 each.
HIAWATHA ROSES, $1.00, $1.25, $1.50, $2.00, $3.00, $4.00, $5.00 each.
TAUSENDSCHON ROSES, $1.00, $1.25, $1.50, $2.00, $3.00, $4.00 and $5.00 each.
CRIMSON RAMBLER ROSES, $1.00 $1.25, $1.50, $2.00 each.
CRIMSON BABY RAMBLER ROSES, 35 cts., 50 cts., 75 cts. each.
PINK BABY RAMBLER ROSES, 35 cts., 50 cts., 75 cts. each.
WHITE BABY RAMBLER ROSES, 35 cts., 50 cts., 75 cts. each.
BOUGAINVILLEAS, $1.00, $1.25, $1.50, $2.00, $3.00, $4.00 each.
HYDRANGEAS, PINK, 50 cts., 75 cts., $1.00, $1.25, $1.50, $2.00, $2.50 to $5.00 each.
HYDRANGEAS, WHITE, 50 cts., 75 cts., $1.00, $1.25, $1.50, $2.00 and $3.00 each.
ERICA MELANTHERA, $1.50, $2.00, $2.50, $3.00 and $3.50 each.
ERICA CUPRESSIMA, 35 cts., 50 cts., 75 cts. each.
ACACIA, $1.00, $1.50, $2.00, $2.50, $3.00, $4.00 each and larger.
MARGUERITES, 35 cts., 50 cts., 75 cts. and $1.50 each.
GENISTAS, 35 cts., 50 cts., 75 cts., and specimen $3.50, $5.00 and $6.00 each.
BOTTLEBRUSHES, $5.00, $6.00 and $7.50 each.

The above will be in the best possible condition for Easter.
Greenhouses 40 minutes from North Station, Boston. Come and see our stock.

THOMAS ROLAND, NAHANT, MASS.

Easter Plants Standard Quality

AZALEAS—.50, .75, $1.00 up to $4.50.

ACACIA ARMATA—$2.00, $2.50, $3.00.

RAMBLER ROSES—Tausendschoen, $2.00 and $2.50 each. Dorothy Perkins and Hiawatha, $1.50 to $2.00 each.

LILACS—Marie Legraye, $1.50 each.

SPIRAEAS—Gladstone and Queen Alexandra, .50 and .75 each.

TULIPS—Murillo, Couronne d'Or, Cardinal, Rose Grisdelin, Rose Luisante, 12 bulbs to pan, .50 per pan.

LILIES—Giganteums, .12 per bud and bloom.

WM. A. RIGGS, Auburndale, Mass.

HELIOTROPE, fine short bushy plants, 2¼ in., $1.75 per 100; $15.00 per 1000.
COLEUS, Golden Bedder and Verschaffeltii or mixed R. C., 60c. per 100; $5.00 per 1000.
LOBELIA, Katherine Mallard, dwarf double R. C., $1.00 per 100; 2¼ in. pot, $1.75 per 100.
FUCHSIAS, 2¼ in. pot, $1.75 per 100; $15.00 per 1000.
FEVERFEW, Little Gem, $2.00 per 100.
VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.
AGERATUM, 2¼ in. pot, $1.50 per 100; $12.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.
ASPARAGUS PLUMOSUS, 4 in. pot, $6.00 per 100 strong.
DRACAENA INDIVISA, 4 in. pot, $8.00 per 100.
ENGLISH IVY, R. C. $1.50 per 100.
ACHYRANTHES LINDENII, 2¼ in. pot, $1.50 per 100.
TRADESCANTIA, in 3 varieties, R. C. $1.00 per 100.

J. E. FELTHOUSEN
154 Van Vranken Ave.,
SCHENECTADY, N. Y.

Asparagus Plumosus Nanus SEEDLINGS

The true kind from seed saved from my own plants

$10 per 1000

W. H. ELLIOTT
BRIGHTON, - MASS.

ORCHIDS

We specialize in Orchids and can offer you anything you may need in that line at attractive prices.

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When writing to advertisers kindly mention HORTICULTURE.

ORCHIDS

Imported and Potted

FREEMAN ORCHID COMPANY
FALL RIVER, MASS.

Craig Quality Easter Plants

WERE never in better shape than now. The Roses, Hydrangeas, Lilies, Genistas, Valley, Daisies, Spiraeas, Rhododendrons and Azaleas, have all been timed to the minute. They are being grown cool and will require no extra heat to bring them into flower in good time. This means that Craig quality plants will be durable with you and with your customers. We would like you to come and see them, but if that is impossible, we would like you to reserve a good sized space in your place for them. Our catalogue is now ready; please send for it. We quote a few prices below.

LILIES

Our stock of this grand Easter plant is exceptionally fine this year and having 25,000 plants, we can positively please the most critical buyer. Plants with from 4 to 10 flowers, 12c. per bloom. Made up pans, from 15 to 25 flowers, 12c. per bloom. Plants with less than 4 flowers, 15c. per bloom. Cut lilies, medium, $12 per 100 blooms. **All plants have been grown moderately cool.**

RHODODENDRONS

Our stock is large, the plants being well budded and shapely, including all the best varieties in all colors. Prices, $1.50, $2.00, $2.50, $3.00, $3.50 and $4.00 each. Very large plants, $5.00, $6.00 and $7.50 each.

HYDRANGEAS

We have the largest and finest stock of Hydrangeas ever offered to the trade at Easter, having 7,500 perfect plants. Our stock includes over 6,000 of the new French varieties, all of which have proven so valuable to the retailer. The plants have all been grown cool and are well hardened off, insuring satisfaction to the buyer. Hydrangea Otaksa, 6 inch, $6.00, $9.00, $12.00, $15.00 and $18.00 per doz.; 7 inch and 8 inch, $2.00, $2.50, $3.00, $3.50 and $4.00 each. Specimens, $5.00, $6.00 and $7.50 each.

All of the following varieties have been tested by us under ordinary conditions as to their adaptability to forcing for Easter. All have proven themselves to be valuable additions.

Bouquet Rose, bright pink; Gene de Vibraye, bright rose; La Lorraine, bright pink; Mme. a Riveram, bright rose; Mme. E. Mouillere, best white; Mme. Maurice Hamar, bright pink; Mme. Renee Gaillard, large white; Souv. de Mme. E. Chantard, bright rose; Radiant, bright pink; Baby Bimbinet; Mont Rose, 6 inch and 7 inch pots, from 3 to 15 flowers, $6.00, $9.00, $12.00, $15.00, $18.00, $24.00, $30.00 and $36.00 per doz.

April delivery, strong stock of the above varieties, 2½ inch pots, except where noted, $8.00 per 100, $75.00 per 1000.

EASTER ROSES

We desire to make special mention of our large stock of roses, growing upwards of 10,000 plants in the leading varieties. We have no hesitation in saying we are the largest growers of forcing roses for Easter in America. We are positive our stock will please the most critical buyers as the quality was never better. It has all been grown cool and will prove very satisfactory.

Baby Ramblers—All the choice and popular varieties in the polyantha class, 5 and 6 inch pots, $6.00 to $9.00 a dozen.

Half Standard Baby Ramblers—Orleans, Pres. Taft, Phyllis, etc., exceptionally fine plants, 3 foot stems, $1.25, $1.50 and $2.00 each.

Hybrid Roses—Magna Charta, etc., $9.00 to $18.00 per doz.

Trained Specimens—All the Ramblers, Lady Gay, Hiawatha, Dorothy Perkins, Tausendschoen, Excelsa, splendid plants in 6, 7, 8 in. pots, at prices ranging from $1.25 to $7.50 each.

SPIRAEAS

Spiraea Gladstone—Our stock is in superb condition, 6 inch pots, very heavy, $6.00 per doz., $45.00 per 100. 7 inch pots, very heavy, $9.00 per doz. 8 inch tubs, very heavy, made up, $12.00 per doz. 10 inch and 11 inch tubs, very heavy, made up, $18.00 and $24.00 per doz.

Spiraea Queen Alexandra—6 inch and 7 inch pots, very heavy, 75c. and $1.00 each.

MISCELLANEOUS

Genistas—Fine stock for basket work in the smaller sizes, from 3 inch pots, at $15.00 per 100 up to large plants at $1.00 to $3.00 each.

Daisies—Yellow and white, well-flowered plants, $4.00 to $9.00 per doz.

Azaleas—Lots of them in the accepted Easter favorites, 75c. up.

Crotons, Dracaenas, Ferns, Palms, Ficus.

Send for Complete Catalogue.

ROBERT CRAIG COMPANY

4900 Market St., PHILADELPHIA, PA.

Branch, NORWOOD, PA.

A Story of Roses!

American growers will no doubt be interested to learn that I have made a contract with Hugh Dickson, Ltd., of Belfast, Ireland, by which, as sole agent, I will distribute to American growers his varieties at the same time and price every year, as they are distributed in Europe. This stock is now growing in my establishment and the buyer will have no vexatious customs delay or charges to pay. The name "DICKSON" is one to conjure with in Roses, and Messrs. Hugh Dickson claim the finest strain of Rose seedlings in the world, as they were awarded a Gold Medal last year by the National Rose Society for each of the 1914 varieties which are as follows:

Mrs. James Lyans **William Cooper**
Brilliant **Mrs. A. Grey**
Countess Clanwilliam

Price $2.50 each per plant; 4" pot plants in full growth

Very liberal discount to trade growers

Mrs. Andrew Carnegie

The new Scotch Gold Medal Druschki seedling. This is an Improved Druschki in form, just as large in size, and in addition is deliciously fragrant.

Grafted or Own Root Plants; $1.00 each, $9.00 doz.

OTHER ROSE NOVELTIES NOW READY
(OUR OWN GRAFTING)

Killarney Brilliant — King of Killarneys
Ophelia — Light salmon pink with golden shadings
Prince D'Arenberg — Brilliant scarlet

SEND FOR MY CATALOGUE

CHARLES H. TOTTY
MADISON, N. J.

One of the Dreer Specialties



A Planting of Japanese Iris at Our Nurseries, at Riverton, N. J.

Dreer's Imperial Japanese Iris

These magnificent Iris are among the most beautiful of our hardy early-summer flowering plants and are destined to become as popular as the hardy Phlox and Paeonies. They are valuable not only as decorative flowering subjects for the garden, but are also very useful as cut flowers.

Our stock of Japanese Iris is very extensive in a splendid assortment of home-grown varieties and can be relied upon for being true to name and description. We supply these in strong liberal divisions of a most satisfactory planting size.

Six-Petaled Japanese Iris

No. Order by name or number.

4. **Yomo-no-umi.** A fine free-flowering early double white.
5. **Koki-no-iro.** Rich royal purple with white veinings.
9. **Oniga-shima.** Rich purple with many white veins.
10. **Shiga-no-ura-nami.** Violet-purple, veined with white.
22. **Sano-watashi.** White, with canary-yellow centre.
24. **Gosetsu-mai.** White veined and traced throughout with aniline-blue.
25. **Senjo-no-hora.** Beautifully mottled deep purple and white.
26. **Uchiu.** Bright purple with crimson sheen.
28. **Tsurugi-no-mai.** Rich, deep purple.
29. **Rish-no-toma.** Silvery white, densely veined and minutely dotted with violet blue.
44. **Yoshimo.** Creamy-white, delicately veined with purple.
47. **Renjo-no-toma.** Petals peculiarly fluted, light violet, with white halo and light veinings.
53. **Samidare.** Silvery white, suffused throughout with rich ultramarine blue.
60. **Kagaribi.** Ground color white beautifully traced and marbled with ultramarine blue.
69. **Waku-hotei.** Pure white veined with purple.
74. **Renkaku.** White, densely marbled and spotted with bright violet-purple.
94. **Komochi-guma.** Rich, velvety pansy-violet.
107. **Tokyo.** The finest pure double white.
108. **Shimosa.** White ground, minutely and densely spotted throughout with bright violet purple.
109. **Hosokawa.** Royal purple with white veinings.

Price: Any of the above. 15 cts. each; $1.25 per doz.; $8.00 per 100; $70.00 per 1000. The set of 20 sorts for $2.00.

Three Petaled Japanese Iris

No. Order by name or number.

11. **Hano-no-nishiki.** Bright violet-purple, veined with white.
12. **Shippo.** Light lilac, densely veined with purple.
14. **Shishi-ikari.** Light ground color, veined and mottled with dark violet-purple.
18. **Meiran.** White, densely marbled and veined with light violet.
23. **Yedo-Kagami.** Magenta-lilac, veined with white.
33. **Kakujakuro.** White ground, marked with violet-blue in such a manner that makes it appear as though the color was dusted on.
43. **Shi-un-ryo.** Grayish-white, deeply and densely veined and suffused with violet.
55. **Schuchiukwa.** A showy variety, crimson-purple with white veins and white halo.
62. **Misutmoshito.** Violet-purple, marbled with purple.
67. **Kigan-no-misao.** A late flowering pure white.
73. **Shirataki.** Silvery-white, border of petals suffused with light Parma-violet.
77. **Yayaura.** White, occasionally marbled with light violet.
82. **Ari-Ake.** Violet-purple, marbled with white.
85. **Ojochin.** Light violet-purple, the larger veins white.
86. **Sei-o-bo.** Large pure white, with faint violet-purple markings.
96. **Tebotan.** White ground, with prominent violet-blue veining.
97. **Shiro-fungen.** Light ground, suffused throughout with bluish-violet.
100. **Yomo-zakuru.** Light ground color, densely veined and suffused reddish-purple.
102. **Shi-no-maki.** Rich royal purple.
106. **Sakata.** Light violet or lavender blue.

Price: Any of the above. 15 cts. each; $1.25 per doz.; $8.00 per 100; $70.00 per 1000. Set of 20 sorts for $2.00.

Extra Choice Mixed Varieties. $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

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our regular wholesale catalogue. No less than 10 sold at these prices. When i



3 in. Pots.	Field Roots.	Name.	Price per 100.
	2500	Achillea Mill. Roseum	$3.50
	500	" Cerise Queen	4.50
	1500	" The Pearl	3.50
	250	" Tomentosa	4.50
300	200	Aconitum autum	6.50
	500	" Nepellus	6.50
	550	Aegopodium Pod. Var	3.50
	750	Agrostema coronaria	3.50
	500	" Alba	4.50
	500	Ajuga Genevensis	3.50
	500	" Reptans. Atrop	3.50
	250	Alyssum rostratum	5.50
	250	" Sax. Compt	5.50
	2000	Anchusa Dropmore Var	6.50
1500		"	4.50
	1000	" Opal (New)	6.50
1200		"	5.00
1000		" Perry's Variety	6.50
1000	3000	Anemone Jap. alba	5.00
500	750	" " Alice	5.50
350	1500	" " Mt. Rose	5.50
150	500	" " Pr. Heinrich	6.50
500	1500	" " Q. Charlotte	5.00
350	2500	" " Rosea sup	5.00
	750	" " Rubra	5.00
1000	2500	" " Whirlwind	5.00
150	250	" Pensylvanica	4.50
	1500	" Pulsatila	4.50
	500	Anthemis Grandiflora	7.50
	1000	" Nobilis	3.50
	300	" Tinct Kelyayii	3.50
250	300	Aquilegia chrysantha	5.00
1000	200	" coerulea	5.50
300		" nivea grandif.	5.50
	2000	" double mixed	4.50
	2000	" single mixed	4.50
500	750	Arabis albida	4.50
2500		" " Fl. Pl	7.50
1000	1000	Armeria marit. splendens	4.50
500	1000	" " " alba	4.50
	1250	" Formosa Hybs	5.50
500		Arenaria Montana	7.50
	500	Artemisia stellariana	3.50

3 in. Pots.	Field Roots.	Name.	Price per 100.
	600	Artemisia purschiana	$3.50
300	500	" Lactiflora	6.50
	500	" Vulgaris	3.50
	1500	Asclepias Tuberosa	5.50
500		Aster Acris	5.00
250	500	" Bty. Colwall (new)	7.50
100	300	" White Queen	5.50
	500	" Tartaricus	3.50
100	300	" F. W. Burbidge	4.50
100	750	" Gertrude	3.50
1000		" Grandiflorus	12.00
150	450	" Laevis calliope	4.50
225	250	" Novelty	4.50
	1250	" Nova Anglia	3.00
250	1000	" " Rubra	5.50
300	500	" Perry's Pink	5.00
200	500	" Perry's Favorite	7.50
500	400	" Ptarmicoide	5.00
	200	" Polyphyllus	4.50
100	200	" Mad. Sayneuse	4.50
125	225	" Miss Wilmot	4.50
	200	" Regina	4.50
1000		" St. Elgwin	7.50
	350	" Semiplenus	4.50
250	400	" Snowflake	5.00
	1000	" Trinervis	3.50
150	350	" Top Sawyer	4.50
	500	" Alpinus	4.50
150	500	" " Superbus	5.50
100	750	" " sub coerul	4.50
	300	Astilbe Davidii	8.00
	250	" Grandis	8.50
300		Aubrietia in variety	6.50
400		Auricula Alpina	6.50
	3000	Baptisia Australis	2.50
	500	Bellis Perennis	3.50
	500	Bocconia Cordata	3.50
	1000	Boltonia Asteroides	3.50
500	1300	" Latisquama	4.50
250	750	Boltonia Latisquama Nana	4.50
1560		Buddleia Veitchiana	6.50
	250	" "	12.00
	750	Buphthalmum Salicifolium	3.50

3 in. Pots.	Field Roots.	Name.	Price per 100.
500		Buphthalmum Magnificano	$8.50
	350	Callirhoe Involucrata	5.00
	350	Calimeris incisa	4.50
	200	Campanula Alliariaefolia	4.50
250	250	" Grosecki	4.50
	375	" Latifolia Macran	5.00
	1750	" Media to color	5.00
	1500	" Calycanthema "	5.50
	200	" Persicifolia	6.50
	100	" Persicifolia alba	6.50
500		" Moerhemi	10.00
	500	" Rapunculus	3.50
	2350	Cassia Mariland	3.50
150	350	Catananche Coerulea	4.50
250	1550	Centaurea Montana, 3 colors	5.50
	500	Cephalaria Tartarica	4.50
1500	750	Cerastium Tomentosum	4.50
100	500	Chelone Barbatus	4.50
	500	Chrysanthemums clumps. Hardy Pompons, 15 sorts double and single named.	5.50
5000		"	3.50
500	500	" Nipponicum	6.50
100	750	" Inodorum	3.50
		" Maximum (See Daisy).	
	1000	Convallaria Majalis (Lily of the Valley clumps)	10.00
	3000	Coreopsis Lanc. Grand	3.50
	300	" Rosea	4.50
150	250	Crucinella Stylosa	5.00
250	100	Craube Cordipolia	10.00
300	2500	Daisy Shasta	4.50
	750	" " Alaska	5.50
150	875	" " California	5.50
	500	" " King Edw. VII.	5.50
750	1000	" " Triumph	4.50
250		" Ostrich Plume	9.00
	750	Delphinium Chinese	5.00
1000	500	" Choice Hybrids	7.50
	1000	Delphinium Formosum	7.50
	750	" Coelestinum	7.50
	500	Dianthus Abbotsford	6.00
500		" Comtesse Knuth	7.50

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esent strong, field grown stock and pot plants. These prices void after April 15th. acking at cost. Subject to prior sales. For varieties not listed and descriptions see n 25 of one kind is wanted add 10% to the 100 rate.

3 in. Pots.	Field Roots.	Name.	Price per 100.
	250	Dianthus Perpetual Snow.	$6.00
200	300	" Superbus	6.00
	250	" White Reserve...	6.00
	350	" Fettes Mount....	6.00
	550	" Alice Lee.....	6.00
	500	" Cyclops single...	6.00
	100	" Her Majesty.....	6.00
	500	" Scoticus	5.00
	300	" Souvenir d' Sales.	6.00
	650	" Furst Bismark...	6.00
260	300	Dielytra Formosa.....	6.50
1000	1500	Digitalis Foxglove.....	5.00
	500	" Grandiflora Yellow	5.50
	1050	Doronicum Excelsum.....	6.00
150	250	" Causicum.....	6.00
	350	Echinops Ritro	4.50
	600	Eryngium Planum.....	5.50
	250	Epilobium Angust.....	4.50
500	1000	Eupatorium Coelestinum..	4.50
	600	" Ageratoides..	4.50
	1000	Euphorbia Corolata.....	3.50
	1200	Fragaria Indica.....	3.50
	1500	Funkia Albo-Marginata...	3.50
	500	" Coerulea	4.50
	950	" Subcordata Grandifl.	7.50
	2500	Gaillardia Grand.....	4.50
	300	Galium Molluga.....	3.50
300	250	Geum Atrosanguineum...	5.50
250	500	Galliga Officinatis.....	4.50
	900	Geranium Sanguineum....	4.50
	600	" Grandifl.	5.50
	1500	Golden Glow.....	2.50
	500	Globularia Trichosantha..	4.50
	750	Gypsophila Acutifolia....	5.50
	650	" Monstrosa Repens.	5.00
	1500	" Paniculata	4.50
	275	" fl. pl.	15.00
	300	Grass Arrhenatherum.....	3.50
	1000	" Phalaris Variegat.	2.50
	1000	" Arunds Donax.....	5.50
	500	" " " Var.	8.50
	1000	Helenium Aut. Rubrum..	8.50
	1000	" Aut. Superbium...	3.50
	500	" Pumilum Mag...	5.50
	700	Helianthemum Croceum..	4.50
	1500	Heliopsis Pitcheriana.....	3.50
	400	" Semi-plena	4.50
	300	" Scaber major.....	3.50
	5000	Helianti (New Vegetable)	1.00
	500	Helianthus H. S. Moon...	3.50
	500	" Maximiliani	4.50
	1000	" Mollis Grandiflorus	3.50
	1500	" Miss Melish.....	4.50
500	1300	" Soliel d. Or.....	4.50
	500	Hesperis Matronalis.....	3.50
	600	" " Alba..	3.50
	3000	Hemerocallis Flava.....	4.50
	5000	" Fulva	3.50
	500	" Gold Dust	4.50
	2000	" Kwanso Fl. Pl....	4.50
	700	" Orange Man	4.50
	650	" Sovereign	4.50
	750	" Thunbergi	5.00
150	500	Heuchera sanguinea.....	5.50
250		" " Alba.	5.50
300		" " Rosea.	5.50
350		" Brizoides	5.50
400		" Gracillima	5.50
375		" Cristata	5.50
	1550	Hibiscus Moscheutos, C. E.	4.50
	800	" Militaris	4.50
	2000	Hollyhocks, Everblooming	5.00
	3000	" Allegheny	5.50
	5000	" Double, 8 colors.	6.00
	3000	" Single, Mixed....	5.00
	150	Hop vines, Golden Leaf..	5.50
400	300	Hypericum Moserianum...	7.50
600	250	Iberis Sempervirens.....	6.00
500	750	" Snow Queen.....	6.00
	300	" Gibraltariaca	5.50
	500	Incarvillea Del.....	5.50
	500	" " Grand. ...	6.00

3 in. Pots.	Field Roots.	Name.	Price per 100.
	2500	Iris Germanica, in fine named sorts, (See Catalog)	$3.00
	1500	" " Pal. Dalmatica.	6.50
	1000	" " Queen of May.	6.50
	500	" " Interregna, 3 new named sorts	7.50
	5000	" " mixed all col..	2.00
	2500	" Japanese Double and Single sorts, named..	6.00
	500	" Siberica	5.50
	300	" " Alba	5.50
	950	Lavendula Vera.....	5.50
500		" "	4.50
	500	Lathyrus Latifolius	3.50
	500	Lathyrus Pink Beauty....	5.50
	300	" White Pearl....	7.50
350	500	Liatris Pycnostac	5.00
	1000	Lilium Candidum	7.50
	500	" Tigrinum Splendens.	6.50
	500	" " fl. pl.	6.50
156		Linaria Cymbelaria.....	6.50
	350	Linum Perenne and Alba.	5.50
450	1000	Lobelia Cardinalis	4.50
	250	" Syphilitica	5.50
	1000	Lupins Perennial, Col. Sep. White, Blue and Pink..	6.50
500		Lupins Perennial, Col. Sep. White, Blue and Pink..	4.50
	300	Lychnis Alpina	4.50
	500	" Chalcedonica	5.00
	750	" Semperflorens plena	6.50
	1250	" Viscaria Splendens.	5.50
	500	" " "	4.50
	1000	Lysimachia Nummularia..	3.50
	500	Lythrum Roseum	4.50
450	1500	Mint, Spearmint	3.50
	1200	" Peppermint	3.50
	550	Mertensia Virginica.....	5.50
	1500	Monarda Splendens	4.50
	1250	" Cambridge Scarlet.	4.50
	1250	" Violacea Superba.	4.50
	1000	" Fistulosa, alba...	2.50
300	1250	Myosotis Palustris.....	4.50
	250	Nepeta Glechoma.....	3.50
	500	" Mussini	4.50
	500	Oenothera Speciosa	4.50
	500	" Missouriensis..	6.00
	500	" Fruticosa	5.50
	350	" Youngii	6.00
	300	Pennyroyal	3.50
500		Pachysandra Terminalis..	10.00
1250		Papaver Nudicaule, 3 Col.	5.00
	5000	Paeonies chinensis, 20 best named sorts.....	12.00
750		Poppy orientale	5.50
750		" Mahoney	6.50
500		" Mary Stadholme..	6.50
200		" Prince of Orange.	6.50
250		" Prin. Vict. Louise	6.50
150		" Goliath	6.50
900		" Trilby	6.50
600	500	Pentstemon bar. Tor.....	4.50
	250	" diffusus	4.50
	150	Petasites Jap. Gigan.....	6.50
	1500	Physostegia virgin	3.50
	1250	" virgin, alba..	3.50
	1300	" Speciosa	4.50
	750	Physalis Bunyardi	5.50
	5000	Phlox decussata in 20 sorts.	5.00
1000	2500	" Subulata Rosea....	3.50
1000	3500	" " Lilac	3.50
750	2500	" Amoena	4.50
700	400	" divar. Canadensis..	5.50
1250		" divar. Laphamii. ..	8.50
	1000	Platycodon grandfl. & alba	5.50
	500	Plumbago larpentae.....	5.50
	250	Polygonatum majus.....	4.50
	1000	Polygonum Cuspidatum..	3.50
	500	Pardanthus sinensis.....	4.50
	500	Potentilla in 3 sorts.....	5.50
160	250	Primula Acaulis, var. col.	5.50

3 in. Pots.	Field Roots.	Name.	Price per 100.
150	350	Primula Elatior.....	$5.50
750	250	" veris superba.....	8.50
500		" Ver. Sup. fl. pl....	10.00
	500	" vulgaris	5.50
	450	Prunnela Webbiana	3.50
800	750	Pyrethrum roseum.....	5.50
450	500	" Uliginosum ...	4.50
	450	Ranunculus rep. fl. pl....	3.50
	250	" Speciosus fl. pl.	7.50
500	750	Rosemary	5.50
	500	Rudbeckia maxima.....	5.50
	1250	" Newmanii	3.50
	750	" Nitida	4.50
	1400	" purpurea	5.50
	500	" subtomentosa..	3.50
	5000	" Golden Glow..	2.50
	300	Salvia agentea	5.50
	2500	" azurea grandifl...	4.50
500	500	Sage Holt's Mam.....	3.50
	350	Santolina incana.....	3.50
	300	Saponaira ocy. splend....	5.50
200	1450	Sedum acre	4.50
	300	" maximum album.	3.50
	1000	" Maxmoviczii	3.50
400		" Reflexum	7.50
450	250	" spectabilis	5.50
150	500	" " atropurpurea.	6.00
300	400	" " Brilliant	7.50
	300	" spurium coccine..	3.50
	250	" sexangulare	3.50
550	250	Sempervivum, hardy.....	3.50
	200	Scabiosa Japonica:.....	6.00
	500	" Gigantea	4.50
	100	Senecio clivorum.....	7.50
	300	Sidalcea candida	4.50
	500	Solidago canadensis.....	2.50
	250	Spirea palmata.....	5.50
	250	" palmata elegans...	5.50
	250	" Japonica Com. Mul.	6.50
	300	" " Astiboides Fl.	6.50
	500	Stachys lanata.....	4.50
	550	Stokesia cyanea.....	5.50
300	400	" cyanea alba.....	5.50
	3000	Sweet William Auricula-flowered, double white and double crimson	3.50
	250	" Newport Pink (new).	7.50
300	250	" Everblooming	4.50
	250	Tanacetum (costmary)....	3.50
	500	Tansy	3.50
	1000	Tarragon (Estragon).....	6.50
360	500	Teucrium Cham.....	5.50
	250	Thalictrum Aqui.....	6.00
	250	" Adiantifolia...	6.00
	550	Thymus lanuginosus.....	4.50
	550	" citroid. aureus..	4.50
300	500	" English Thyme.	3.50
400	350	Tiarella Cordifl..	5.50
	300	Tradescantia Vir. alba....	3.50
	1500	Trillum grandfl.....	3.50
	2500	Tritoma Express	6.50
	1000	" Pfitzeri	6.50
	500	" Tucki	6.50
	250	Tunica saxifraga.....	4.50
	350	Valeriana coc. & alba....	5.50
	350	" Officinalis	5.50
150	250	Veronica gent. fol. var...	5.50
	200	" incana	5.50
	1000	Veronica long, subsessilis	7.50
1500		" " "	5.50
	500	" Prostrata	4.50
	350	" Virginica	4.50
	1500	Vinca Minor.....	4.50
1500		" "	5.50
600	1500	Viola Double English....	5.50
	250	" odorta, from seed.	5.50
	500	" cornuta, colors sep.	4.50
800	2500	" G. Wermig.....	5.50
500	600	Wallflowers, English double and single, 2 yr....	5.50
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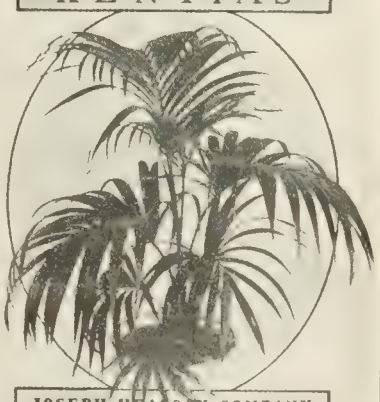
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a stock that is **Unequalled** in the World.

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MAD. CROZY. 5½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
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SOUV. DE A. CROZY. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

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WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
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MRS. KATE GRAY. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.

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ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
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DR. BUDINGEN. 4 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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FURST BISMARCK. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
WILLIAM SAUNDERS. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

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AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

A letter from some of our Washington friends indicates that they are somewhat disturbed because of an item published in HORTICULTURE two or three weeks ago, saying that Washington was a pretty warm place in late June. We supposed we were stating a fact but wish to add that Washington is no exception among our cities at that time of year. Nearly all cities are very warm and the idea in mind at the time was that if the executive committee of the Seed Trade Association had chosen some summer resort for the convention, it would doubtless have been cooler and more comfortable than Washington or any other city is likely to be. We have no disposition in the world to knock Washington; on the contrary, we regard it as a very beautiful town and one that all Americans may well be proud of, and if Washington has not yet learned the secret of controlling its climate, it has the weather bureau and will probably be the first to benefit from any information which may come to those in charge about tempering the heat of summer or the cold of winter.

There are unmistakable signs of spring in the air, and in the odor of the soil as one goes through the country which is very noticeable and undoubtedly the seed trade will be very busy for the next sixty days. If the spring is a little late in opening but continues warm without any cold snaps to set back vegetation, we may get just as early crops as we do when we have a warm genial March. We shall try to have some special seed trade notes in our next issue that may be of general interest.

Much sympathy is expressed for the St. Louis Seed Co. in their second catastrophe. They had adjusted their fire claims on a basis of $85,000 the day before their building was wrecked and the little that was saved from the fire is now a total loss, with seeds and garden implements, chickens, birds and gold fish under thousands of tons of debris. The company has now leased 406-408 N. Broadway and have a large force working getting in shape for opening their business this week.

The new parcel post ruling about seeds which went into effect March 10th is being worked out by the seedsmen to the best of their ability. One of the unsurmountables is the postage on peas, beans and corn to distant points like California. The postage stated in most of the catalogues is not nearly enough under the zone system. Of course by they will gain a little on the nearbys but the customers usually write for the stamps back. Changes of that sort should not be made in the middle of a season, after the catalogues are all printed and distributed.

Government Seeds.

While it is too late to accomplish it at this session of Congress no opportunity should be neglected by those who realize the necessity of it to push the idea for a reform in the distribution of government seeds, if the practice is to be continued. It is now used as the means of bolstering up good fellowship of the members of Congress and becomes a favor of the legislators rather than an effort which was intended to work to the betterment of the farmers. It has wandered far from the original purpose. Today the distribution of free seeds means the sending of a package of the commonest variety with which each and every person with a garden plot is supplied or can be without any great expenditure.

The idea of this assistance on the part of the Department of Agriculture was to place in the hands of the agriculturists seeds of a known quality which while not common could be expected to be of value in connection with the development of the various sections of the country. It is the introduction of the new and rare seeds which will prove of value and be accepted with appreciation by the tillers of the soil. Whatever can be done in that way as a contribution to scientific farming and an encouragement and suggestion for new crops has merit which is likely to be recognized. It would at least result in the giving of adequate tests to such seed which under the present method is a rank failure and waste of good money. The reformers have a great opportunity for work in this direction.—*Norwich (Conn.) Bulletin.*

Another Seed Postage Bill.

You are probably aware that on March 9th Congress passed the appropriations act for the Post Office Department, in which the Postmaster General was authorized to transfer seeds, bulbs, etc., to the parcel post. On March 10th the Postmaster General made a sweeping order transferring all seeds, etc., so that they must now pay postage at the rate of one cent for each ounce or fraction thereof up to four ounces; all packages in excess of four ounces will pay pound postage zone rates. This, of course, goes farther than the seedsmen who desired this transfer wished.

I now call your attention to Senate Bill 4980, filed by Senator Pomerene on March 20th, which bill is to place seeds, cuttings, etc., in fourth class matter, and for the same rates of postage:

"Provided, that all packages thereof containing eight ounces or less shall be charged for at the rate of one cent for two ounces or fraction thereof."

This is evidently an effort to place seeds in the same category as books.

CURTIS NYE SMITH.

Seed trade visitors in Cleveland last week were: C. N. Keeney, Le Roy, N. Y.; W. F. Therkildson, advertising manager for W. Atlee Burpee & Co.; Bert Chadwick, with C. F. Meyer & Co., New York.



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Blush Pink	.20	.75
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Light Blue	.20	.75
Dark Blue	.20	.75
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Choice mixed	.20	.65

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Semples' Branching Aster

Lavender	.30	1.00
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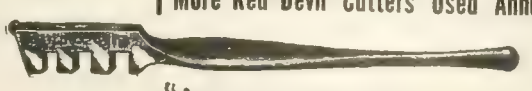
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ASTERS—All varieties.
VERBENA—SWEET PEAS.

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New York, N. Y.-S'hampton..Apr. 3
St. Paul, N. Y.-S'hampton....Apr. 10

Atlantic Transport.
Minnetonka, N. Y.-London....Apr. 4
Minnewaska, N. Y.-London...Apr. 11

Cunard.
Lusitania, N. Y.-Liverpool...Mar. 31
Mauretania, N. Y.-Liverpool..Apr. 7
Laconia, N. Y.-Mediteranean..Apr. 11

French.
La Provence, N. Y.-Havre.....Apr. 1
France, N. Y.-Havre.....Apr. 8

Hamburg-American.
Pennsylvania, N. Y.-Hamb'g..Apr. 2
K's'n Aug. Vict'a, N.Y.-H'b'g.Apr. 9
Pres. Lincoln, N. Y.-Hamb'g..Apr. 11

Holland-America
New Amsterdam, N.Y.-Rot'm.Mar. 31
Noordam, N. Y.-Rotterdam...Apr. 7

Leyland.
Devonian, Boston-Liverpool..Apr. 4

North German Lloyd.
Kr. Wil. d' Grosse, N.Y.-B'm..Mar. 31
Barbarossa, N. Y.-Bremen....Apr. 2
Kr. Wilhelm II, N.Y.-B'm'n...Apr. 7
Seydlitz, N. Y.-Bremen.....Apr. 9
Pr. Irene, N. Y. Mediter'n...Apr. 11

Red Star.
Samland, N. Y.-Antwerp....Apr. 1
Vaderland, N. Y.-Antwerp...Apr. 4

White Star.
Arabic, Boston-Liverpool.....Mar. 31
Cretic, Boston-Mediter'n.....Apr. 2
Adriatic, N. Y.-Liverpool....Apr. 2
Majestic, N. Y.-S'hampton...Apr. 4

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Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Detroit, Mich.—The Flower Growers' Corporation is the name given to the new wholesale house just organized by Chas. H. Maynard, who becomes manager. It is incorporated under the laws of Michigan. The officers hope to be ready for business about April 1st at 118 Broadway.

Bayonne, N. J.—Business in this locality seems to be very brisk with all the florists as at every store the writer visited they were very busy making up. Patrick Cran, of 18th street, reports that business this season has kept up wonderfully well. G. A. Ripp, Jr., of 751 Broadway, reports that trade has been exceptionally good for this time of the year. F. W. O. Schroeter of 457 Avenue E also reports good business. Mr. Schroeter is a grower as well and has about eight houses for ferns, callas and miscellaneous stock.

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CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' CLUB.

Two-thirty P. M., March 19th, found us on our way to Manheim and the Hostetters, Emanuel, Phares and Monroe. To give in detail an account of these trips is simply to repeat, as the majority of growers in this section are carnation men with an occasional side line. It is the genial good fellowship established and the readiness to discuss both failures and successes that makes the trips valuable. E. P. Hostetter has the largest area of glass of the three. His carnations did not average up quite as good as at the other two places, but sweet peas, snapdragons, yellow daisies, primula and Sprengerii made up a combination of stock that is bringing in money. Combination boxes of all this stock are arranged with an eye to effect, made up so that a buyer could hardly resist when he saw the box opened. Manheim produces snapdragons with eight-foot stems and flower spikes in proportionate length.

Seven-thirty P. M. we were ready for our meeting and had with us Adam Heim, Connersville, Ind.; Thos. D. Nolan of the King Construction Co., and Ernest Morrell of the Berry Hill Nurseries, Harrisburg, Pa. The latter gentleman gave us an interesting and instructive lecture accompanied by lantern slides on Herbaceous Plants and Their Uses, and opened up our eyes to some hitherto unknown possibilities.

At the regular business part of the session, H. A. Schroyer, chairman of his committee, reported having secured a written order from the traction company authorizing the conductors on all cars to accept cut flowers or designs for rush orders, or where it is impractical to use the regular express cars. This is quite an item to our growers and could have been secured only by means of the Club. The writer reported for his committee on co-operative buying, having secured another local concern that would allow us straight ten per cent on steam and hot water fittings and supplies of all kinds. This also will mean considerable to those who take advantage of it. The co-operative buying sticker for use on correspondence was distributed at this meeting.

After a half hour's local color and fun, through the question box, Mrs. A. M. Herr moved for the ladies that a rising vote of thanks be given the Club for their privilege of seeing the slides and hearing the interesting lecture and despite the present day narrow skirt every lady was on her feet in an instant. Mr. Nolan in behalf of the Scranton florists invited us to attend their spring show, and the meeting adjourned to meet April 16th, when for a visiting trip the members take the Coatsville car, 1.45 P. M., and get over what ground the afternoon allows.

ALBERT M. HERR.

COOK COUNTY FLORISTS' ASSOCIATION.

The regular monthly meeting of the Cook County Florists' Association, Chicago, was held March 19th and the principal event of the evening was the installation of the newly elected officers by H. E. Philpott, as follows: President, N. P. Miller; vice-president, A. Henderson; secretary, A. T. Pyfer; treasurer, J. Zech; sergeant-at-arms, M. Fink. There was a discussion on the advanced express rates on short hauls, which culminated with a motion to write a letter of protest to the commission. Communications from various railroads regarding the coming convention at Boston in August were read and referred to the transportation committee, which will report at the next meeting. Herbert E. Smith, of Danville, Ill., newly elected president of the Illinois State Florists' Association, was proposed for honorary membership.

GARDENERS' AND FLORISTS' CLUB OF BALTIMORE.

Prof. F. W. Besley, State Forester, gave a very interesting and instructive illustrated lecture before the Gar-



E. C. BRUCKER,

Re-elected treasurer of the Buffalo Florists' Club.

deners' and Florists' Club of Baltimore, March 23. He talked mainly on the value of roadside trees and the kinds suitable for street planting. His views well illustrated the advantage of trees for such purposes. The ones showing the mutilation by improper trimming and the after results were educational and especially so as the Gardeners' Club have for years been trying to prevent the tree butchers from destroying the street trees of Baltimore. The past year the municipal authorities took full charge of all street tree planting and it is now hoped the city will soon be in a way to have fine tree-lined avenues. There is a bill now before the legislature for planting trees along the public highways in the State, which will be cared for by the State Board of Forestry.

The club is in the best financial condition of its history. Walter L. Halloway, of Old York Road, exhibited a fine stem of double white snapdragon grown from seed.

AMERICAN ROSE SOCIETY.

The American Rose Society at its annual meeting in Grand Central Palace, New York, on March 23, reelected Wallace R. Pierson as president; vice-president, Robert Pyle; secretary, Benj. Hammond; treasurer, Harry O. May, all by an unanimous vote. Directors elected were August Poehlmann, Chicago, and Louis J. Reuter, Westerly, R. I. The selection of the next

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we hold to high standard. When there is anything new worth having we sell it. Special for this week : — St. Patrick's Day Hats, Pipes and Other Conceits for sending out with March 17th orders.

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A Florist's Necessity HART'S HANDY HANDLE

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches	high,	$2.50	per doz.	4	24	inches	high,	$5.00	per doz.
2	15	"	"	3.50	" "	5	30	"	"	6.50	" "
3	18	"	"	4.00	" "	6	36	"	"	9.00	" "

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place of meeting was postponed until the time of the S. A. F. Convention in Boston next August.

The St. Louis Retail Florists' Association held its meeting on St. Patrick's night at the Washington Hotel. The one important thing that was decided upon was to invite the wholesale florists to make an exhibit of cut stock and supplies at their next meeting. A lunch was served after the meeting.

The Chicago Retail Florists' Association has a very complete showing of plants and florists' supplies at J. L. Raske's. All kinds of blooming plants for Easter are included and all the accessories so popular and attractive are shown. A box of the new carnation Philadelphia arrived in good condition. At this writing, March 24, the exhibit is incomplete.

Notice is hereby given to members of the Buffalo Florists' Club, fellow florists and out-of-town florists and growers, that an invitation has been extended to inspect the greenhouses of S. A. Anderson of 495 Elmwood avenue on Sunday next and it is hoped that a good delegation will be on hand as there is something in store for all. The able manager, Jos. Streit will be on the lookout that no one is overlooked.

The Ladies' Auxiliary of the Detroit Florist Club meets on the first and third Fridays of each month at 2.30 P. M. in the Florist Club's room. The officers of the organization are as follows: President, Mrs. E. A. Fetters; vice-president, Mrs. Charles Plumb; secretary, Mrs. N. J. Stahelin; treasurer, Mrs. Robert A. Rahaley; press committee, Mrs. Walter Toepke; auditors, Mrs. G. Asman and Mrs. Jerome Stock; social, Mrs. Schroeter and Mrs. Warncke; house, Mrs. Poechelon; membership, Miss Jean and Mrs. Michell; relief, Mrs. F. Pantke and Mrs. Smith.

CHICAGO NOTES.

Rhododendrons are gaining in favor each year as Easter plants and some magnificent specimens will be offered this year. At a local plant grower's Pink Pearl is regarded as a fine addition to the older varieties.

The spring openings at the big State street stores call for the lavish use of decorative materials this week. In one store natural ferns and palms were used exclusively, calling for several thousands, while in others festoons of prepared materials, largely in green, were used. Some large vases of natural roses were used on the counters.

The annual flower sale on the day preceding Easter, at the Congress Hotel, for the benefit of the Destitute Crippled Children's Home, is each year getting to be more of an event with society people. The sum netted last year was several thousand dollars, and while that means just so many dollars taken from the retailers' Easter trade, so far they have donated most of the flowers. Plants are also included and hampers and the society people fill their Easter wants without visiting the florists.

Poughkeepsie, N. Y.—L. F. Graham of Little Falls, N. Y., has purchased the greenhouse business of Geo. A. Relyea.

DURING RECESS.

Essex County, N. J., Florists' Club.

The Ladies' Night meeting of the Essex Co. Florists' Club was held on Thursday evening, March 19th, at Kreuger Auditorium and was a very great success. The evening of enjoyment was started with a fine menu. During the dinner there was good music and talent, which put guests and members in good spirits. The entertainment committee earned their vote of thanks for the manner in which they worked and the way they carried out the entertainment and decoration. A little speech making was in order and the following gentlemen responded: J. K. Allen, A. H. Langjahr and A. Guttman of New York, E. Jacobi, president of the club of Irvington, N. J., R. Yuill, chairman of the committee, and J. Rassbach. After the speech-making dancing was enjoyed until a late hour. Two hundred tickets were distributed for the New York Flower Show among the members. The entertainment committee was composed of the following: R. Yuill, chairman, J. Rassbach, W. L. Jones, A. Deisler, Chas. Deisler, J. L. Puffer, E. Kemp, J. J. McLoughlin and William Muller. The next meeting will be held on the 16th of April.

J. M. WHITE.

Baltimore, Md. — Pierce & Co., wholesale florists on No. Charles street, have bought G. V. Smith's floral place on Madison avenue and will make extensive improvements which they expect to complete by May 1.

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We are prepared to supply the best quality of Easter Plants for Select Store Trade. Now is the time to order before the stock is depleted.

FINE LILIES

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Roses in all the Standard Varieties; All the Best Carnations in Exceptional Quality; Yellow Daisies, Primroses, Lily of the Valley and Spring Bulb Flowers; Violets, Sweet Peas, Cattleyas, Gardenias, etc., etc.

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We pack in Boxes of Twenty-five Pots each, Nicely Crated over the Top. Our Packing is Undoubtedly the BEST IN THE UNITED STATES. Average 5 Flowers to the Plant. One Extra Plant, gratis, in each Crate.
Prices in case lots, 12c. per Flower or Bud. ORDER EARLY so that we may be able to Ship Them Direct from the Greenhouses Without Rehandling.

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The Killarneys, Richmond, Cardinal, Killarney Queen, Maryland, Russell and all the popular Novelties in all grades and prices.

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Plant Auction Sales for Spring Season will begin early in April if shipments arrive, and thereafter each Tuesday and Friday until June

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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI March 23	CHICAGO March 23	BUFFALO March 23	PITTSBURG March 23
Am. Beauty, Special	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	35.00 to 50.00
" " Fancy and Extra	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	20.00 to 30.00
" " No. 1	15.00 to 20.00	6.00 to 15.00	15.00 to 20.00	10.00 to 15.00
Killarney, Extra	8.00 to 10.00	5.00 to 8.00	10.00 to 12.00	8.00 to 12.00
" Ordinary	6.00 to 8.00	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00
Richmond, Hillingdon, Extra	10.00 to 12.00	5.00 to 8.00	6.00 to 10.00	8.00 to 15.00
" " Ordinary	4.00 to 8.00	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00
Maryland,,Ward,Taft,Sunburst, Ex.	8.00 to 10.00	5.00 to 8.00	10.00 to 15.00	8.00 to 12.00
" " " Ordinary	6.00 to 8.00	2.00 to 4.00	6.00 to 8.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to	..... to	..... to .....
Carnations, Fancy	3.00 to 4.00	2.00 to 3.00	2.50 to 3.00	..... to 4.00
" Ordinary	2.00 to 3.00	1.00 to 2.00	1.50 to 2.00	..... to 2.00
Cattleyas	35.00 to 50.00	40.00 to 50.00	35.00 to 40.00	35.00 to 50.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 12.00	10.00 to 12.00	12.00 to 15.00
Callas	10.00 to 12.00	8.00 to 10.00	10.00 to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Paper Whites	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Freesias	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00	..... to 2.00
Daffodils	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Tulips	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Violets	.50 to .75	.40 to .50	.50 to .60	..... to .50
Mignonette	5.00 to 6.00	3.00 to 5.00	2.00 to 5.00	4.00 to 6.00
Daises	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	2.00 to 3.00
Sweet Peas	.75 to 1.50	.75 to 1.50	.50 to 1.00	.40 to .75
Gardenias	25.00 to 35.00	25.00 to 30.00	15.00 to 25.00	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to .....
Smilax	12.50 to 15.00	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	35.00 to 50.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00	30.00 to 50.00

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SPECIAL	$25.00 per 100	FIRST	$10.00 per 100
FANCY	20.00 " "	SECOND	6.00 " "
EXTRA	15.00 " "		

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Asparagus Plumosa, bunches and strings, each 50c.
Asparagus Sprengerii, per bunch, 25c. and 35c.
Wild Smilax, per case, $5.00.
Wild Nutmeg, per 100 sprays, $3.00.
Mahonia, bronze and green, per 100 $1.50, per 1000 $12.50.
Boxwood Sprays, per 50 lb. case, $8.00; 3 case lots, per case, $7.50.
Laurel Branches, per 100 lbs., $6.00.
Laurel Roping, per 100 yds., $6.00.
Chestnut Oak Foliage, per 100, $2.00; per 1000, $15.00.
Leucothoe, green and bronze, per 100, $1.00; per 1000, $10.00.
Mexican Ivy, per 1000, $7.50.
Dagger Ferns, best quality, long and perfect fronds, per 1000, $3.00.
Fancy Ferns, per 1000, $4.00.
Galax, green and bronze, per 1000, $1.50; per 10,000, $7.50.
Green Sheet Moss, per bag, $3.50.
Green Lump Moss, per bag, $1.50.
Fadeless Green Sheet Moss, per bag, $3.50.
Sphagnum Moss (burlapped), 10-bbl. bales, $4.00 each; 5 bale lots, per bale, $3.75; 10 bale lots, per bale, $3.50.

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P M QUALITY

Flower Market Reports

BOSTON Business has held up very well thus far and prices have not receded to any great extent but it looks now as though the product would show a considerable increase within a day or two and the result will be lower values. All roses are plentiful and good, excepting Beauty, and have been moving very satisfactorily. Carnations have recovered somewhat from the stagnation of last week. Sweet peas are falling off in quality also in market value. There are lots of violets, good and cheap. Bulbous stock continues to come in heavy, double tulips enjoying the best demand. Lilies are are in normal supply and demand but callas are in overstock and are accumulating in wholesalers' hands. Lily of the valley is easy in all grades. Cattleyas received now are mostly Schroederæ and, as usual, are disposed of with difficulty and at much lower prices than the other species command. Hardy ferns are scarce at advanced figures.

BUFFALO Again a decided change from spring weather to winter. The cold snap continued throughout the week and it had a telling effect on business, especially the transient trade for the retail merchant. Roses are coming on better each day, some excellent Killarneys are seen; also Maryland are beginning to come on in better stem and color. Bonsilene and Safrano have sold well all winter. There are more Richmonds, short Beauties and Milady than in weeks previous. Carnations are improving though a good portion are still of the ordinary grade. Lily of the valley good and still quiet. Mignonette plentiful and excellent tulips of the Murillo variety have sold best. Daffodils have not been too plentiful and clean up daily. Choice snapdragon in pink, white and yellow sells well. Good wood ferns are scarce.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON March 26	ST. LOUIS March 23	PHILA. March 23
Roses			
Am. Beauty, Special	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	15.00 to 25.00	15.00 to 35.00
" " No. 1	8.00 to 10.00	8.00 to 10.00	5.00 to 12.50
Killarney, Extra	5.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Richmond, Hillingdon, Extra	5.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" " Ordinary	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	5.00 to 10.00	6.00 to 8.00	6.00 to 10.00
" " " Ordinary	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Russell, Shawyer	8.00 to 12.00	..... to	5.00 to 20.00
Carnations, Fancy	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
" Ordinary	1.00 to 2.00	1.00 to 1.50	1.00 to 2.00
Cattleyas	20.00 to 40.00	40.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	8.00 to 10.00	10.00 to 12.50	6.00 to 10.00
Callas	6.00 to 10.00	10.00 to 12.50	6.00 to 10.00
Lily of the Valley	2.00 to 3.00	3.00 to 4.00	2.00 to 4.00
Paper Whites	1.00 to 1.50	2.00 to 3.00	..... to .....
Freesias	1.00 to 2.00	2.00 to 3.00	1.00 to 3.00
Daffodils	1.00 to 2.00	2.00 to 3.00	1.00 to 3.00
Tulips	1.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Violets	.15 to .25	.20 to .40	.20 to .50
Mignonette	2.00 to 6.00	4.00 to 5.00	1.50 to 4.00
Daisies	.50 to 1.00	..... to	.50 to 2.00
Sweet Peas	.40 to .75	.20 to 1.25	.20 to 1.50
Gardenias	15.00 to 20.00	..... to	10.00 to 20.00
Adiantum	75 to 1.00	1.00 to 1.25	1.00 to 1.50
Smilax	12.00 to 15.00	12.00 to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	10.00 to 35.00	15.00 to 25.00	25.00 to 50.00

CHICAGO The condition of the market is in a general way considered quite satisfactory for late March. There is an abundance of stock of all kinds and with few exceptions a good quality of all kinds of flowers can be found. The most important exception is still the American Beauty, which is decidedly off crop now, and though very poor, the long-stemmed ones are in such demand that some of the large houses are getting six dollars per dozen for the few that can be called at all satisfactory. Short Beauties sell slowly. St. Patrick's Day cleaned up all the white carnations and the following Friday all kinds of carnations were moved off to avoid a glut on Saturday, with the result that the week end found business good and prices fair. Excellent pink and white Killarneys are seen on the counters. Richmond and Sunburst are not quite so much in evidence. Ten-week stock is coming in in fair quantity and sells readily. Bulbous stock is growing less but there is still enough to meet the demand. Lily of the valley is of a good grade and finds ready sale. Common ferns are selling at three dollars per thousand.

CINCINNATI Business is very good. An active demand that lasted throughout last week continued into this week. The call for stock was so strong that in spite of very heavy receipts the wholesalers were able to realize fair prices for their goods. The supply of roses is much larger and better than it was. All the good ones up to the time of this writing are cleaning up easily. Easter lilies are not as plentiful as they were and are running short of requirements. The offerings of callas are large. Good narcissi sold comparatively well last week, probably because of the limited supply. Heavy cuts of sweet peas are offered. The poor ones hardly have any kind of a market. Violets and orchids are both in the class of poor sellers.

(Continued on page 511.)

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ROSES AND CARNATIONS	Last Half of Week ending Mar. 21 1914	First Half of Week beginning Mar. 2 1914
American Beauty, Special	40.00 to 50.00	40.00 to 50.00
" " Fancy and Extra	20.00 to 30.00	20.00 to 40.00
" " No. 1	5.00 to 10.00	8.00 to 20.00
Killarney, Extra	4.00 to 6.00	4.00 to 6.00
" Ordinary	1.00 to 4.00	1.00 to 3.00
Richmond, Hillingdon, Extra	4.00 to 8.00	4.00 to 8.00
" " Ordinary	1.00 to 4.00	1.00 to 3.00
Maryland, Ward, Taft, Sunburst, Extra	5.00 to 8.00	4.00 to 8.00
" " " Ordinary	3.00 to 4.00	2.00 to 4.00
Russell, Shawyer	2.00 to 8.00	2.00 to 8.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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Flower Market Reports

(Continued from page 490)

NEW YORK The market fell down badly directly after our last report, but soon recovered in some degree, although in the spell of warm spring weather which appears to be imminent, it can hardly be expected to long retain its backbone. Prices are down, of course, and the winter schedule is a thing of the past. It will be, from now out, not so much a question of market price as market activity, so that the goods may be quickly unloaded. There are plenty of all roses, carnations, sweet peas, violets, daisies, lilies, cattleyas, etc., and quality holds good. American Beauty is the only item that still lacks in supply and quality. Daisies, both yellow and white, are now overplentiful after a long period of scarcity. Schroederæ is the main reliance in cattleyas at present and the flowers sell slowly at low figures. Dendrobiums Wardianum and nobile are in good supply, at $5 per 100 blooms. Wallflowers of superb quality are seen in abundance. They bring about 20 to 25 cents a bunch of a dozen spikes. There are plenty of lilies, and all bulbous material is still abundant and cheap.

PHILADELPHIA There was a good volume of business last week, with large supplies and moderate prices all through the list. The street boys were a big factor on Friday and Saturday and helped to clean up the accumulated surpluses, so that there was little left over and nearly everything found a market of some kind. The rose market is very well supplied and all grades hang fire, especially in the higher priced qualities. Where a dozen American Beauties were being cut a week ago there are now a hundred. In pink roses, Russell and Killarney are the leaders. The former is particularly fine just now and one of the features of the market. The only white is Killarney, but there are some

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 21 1914	First Half of Week beginning Mar. 23 1914
Cattleyas	15.00 to 50.00	15.00 to 50.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00
Callas	6.00 to 8.00	6.00 to 8.00
Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Paper Whites	1.00 to 2.00	1.00 to 2.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Violets	.15 to .35	.15 to .35
Mignonette	2.00 to 4.00	2.00 to 4.00
Daises	.50 to 1.00	.50 to 1.00
Sweet Peas (per 100 bunches)	2.00 to 8.00	2.00 to 8.00
Gardenias	10.00 to 20.00	10.00 to 20.00
Lilacs (per bunch)	.. .. to 1.00	..... to 1.00
Adiantum	.75 to 1.00	.75 to 1.00
Smilax	6.00 to 10.00	8.00 to 10.00
Asparagus Plumosus, strings (per 100)	15.00 to 35.00	20.00 to 40.00
" & Spren (100 bunches)	10.00 to 20.00	20.00 to 40.00

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Ample supplies of all staples in cut flowers

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Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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H. Bayersdorfer & Co., Philadelphia, Pa.
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Welch Bros. Co., Boston, Mass.
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Komada Bros., Philadelphia, Pa.
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Peirce Paper Flower Pot.
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Washington, D. C.
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R. Vincent, Jr. & Sons Co.,
White Marsh, Md.
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Alonzo J. Bryan, Washington, N. J.
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GERANIUM ROOTED CUTTINGS—S. A. Nutt, $1.50 per 100; 2¼ inch, $2.00 per 100. Cash. CHAS. H. GREEN, Spencer, Mass.

GLADIOLUS

Independence	bulblets,	$2.25 pk.,	$7.00 bu.
"	½ inch bulbs,	$4.00 per	1000
"	¾ " "	5.00 "	"
"	1½ " "	8.00 "	"
Klondyke,	1½ " "	12.00 "	"
Mrs. King,	½ " "	6.00 "	"
Groffs mix., reds,	½ inch,	4.00 "	"
"	¾ "	5.00 "	"
"	1 "	6.00 "	"
"	1½ "	8.00 "	"
"	bulblets,	$2.50 pk., 8.00 "	bu.

" light shades, $1.00 per 1000 more than above.
CLARK H. BROWN, Ashland, Mass.

GLADIOLUS—Continued

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

Gladiolus—America and Independence, all sizes. Write for samples. MUNSELL AND HARVEY, Ashtabula, Ohio.

GLADIOLUS.
1000 Glory, first size. CHAMBERLAIN & GAGE, Wellesley, Mass.

Gladiolus—America, by express, all sizes from No. 1 down to bulblets. Prices on application. M. CRAWFORD CO., Cuyahoga Falls, Ohio.

B. Hammond Tracy, Wenham, Mass.
Cedar Acres Gladioli.

John Lewis Childs, Flowerfield, N. Y.
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GLASS

Sharp, Partridge & Co., Chicago.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

GLASS CUTTERS

Smith & Hemenway Co., New York City.
Red Devil Glass Cutter.
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GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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S. Jacobs & Sons, Brooklyn, N. Y.
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Lord & Burnham Co., New York City.
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Iron Gutters.

HAIL INSURANCE

Florists' Hail Asso. of America.
J. G. Esler, Saddle River, N. J.
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HART'S HANDY HANDLES
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HOSE
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Black Cat Hose, 8 ply, ¾-in., 16c. foot, best quality. Try 25 or 50 feet. U. CUTLER RYERSON, 108 3rd Ave., Newark, N. J.

HOT-BED SASH
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LAWN MOWERS
Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS
Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Importer, Exporter, Growers, Hybridists.
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Otto Heinecken, New York City.
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PEONIES
Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Kroeschell Bros. Co., Chicago.
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Pfaff & Kendall, Newark, N. J.
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"Riverton Special."

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Killarney Queen.
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Charles H. Totty, Madison, N. J.
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M. H. Walsh, Wood's Hole, Mass.
The Rose Paradise of America.

Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SEED GROWERS

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Brasian Seed Growers Co., San Jose, Cal

SEEDS

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J. M. Thorburn & Co., New York City
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The Right Seeds in the Right Place.

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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices. Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

ASTERMUM SEED.

Just to remind you lest you forget and be too late, 1 oz., $5.00; ½ oz., $3.00; trade pkt., 75c. Cash with order, please. Colors—white, pink, lavender and royal purple. Descriptive circular on application. ALBERT A. SAWYER, Forest Park, Ill.

SNAPDRAGONS

G. S. Ramsburg, Somersworth, N. H.
Silver Pink Snapdragon.
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SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

VEGETABLE PLANTS

TOMATOES.

5000 Comet Forcing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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WALLFLOWERS.
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Flower Market Reports

(Continued from page 501)

nice cuts of Kaiserin promised for Easter week. Carnations continue extra fine and very plentiful; a large business is being done but at low figures. The indications are that the flush of the crop is on right now and that by Easter there will not be quite such a heavy cut. Lots of gardenias are to be seen on the street, which is a good indication that they are cheap. Orchids are more plentiful, the most conspicuous being Cattleya Schroederae. Much business is being done in sweet peas, which are splendid stock, especially the Spencers; prices quite moderate. Snapdragon is now better stock and more plentiful and sells well. Southern daffodils and arbutus are in.

ST. LOUIS The first day of spring ended up with a snow storm and the second day opened with one. These weather conditions retard trade somewhat, but do not seem to cut off the big supply. The local market was so packed up with stock of all kinds every day last week that about all we can say for this week is that trade has been very dull. The demand could not come any way near consuming the consignments. Down town florists used thousands of violets and sweet peas in special sales at low prices.

WASHINGTON Business during the past week or ten days has fallen to a very low ebb and this condition, with a large supply of flowers, has caused prices to drop considerably. Carnations, roses and gardenias are in large supply and can be had at a very low figure, while violets and sweet peas, with the exception of the orchid-flowering variety, can be bought at less than $5 per thousand. Potted plants in all varieties are meeting with a fair sale, and the first of the Easter crop is now coming in. The present dullness is attributed in large part to the local legislation enacted and pending in Congress, a large portion of which is detrimental to the interests of good business.

PHILADELPHIA NOTES.

Adam Graham of Cleveland, O., has bought a Spanish castle in the Isle of Pines. John Walker of Youngstown, O., has bought twenty acres in the same island. What do you suppose these two buccaneers are up to anyway?

Berger Bros. are now comfortably established in their new quarters at 1225 Race street. This new move gives them increased facilities in many ways and they will be pleased to welcome all their old friends, and are prepared to take good care of many new ones. The firm is composed of Harry and John Berger—both live wires in the business and men whom it is a pleasure to know.

Omaha, Neb.—A boy of 17 years has been arrested charged with breaking into the flower store of John Bath and the larceny of $75.

Obituary

Melvin Folsom.

Melvin Folsom, for some years engaged in the florist business, died at his home in Rochester, N. H., on March 10, after a long illness. His age was 56 years.

Byron L. Smith.

Many florists of Chicago will feel a sense of personal loss in the death of Byron L. Smith at his winter home, 2140 Prairie avenue, Chicago, March 22nd. He always responded when the horticultural interests of Chicago and vicinity were concerned, and from his magnificent estate at Lake Forest, his summer home, have come many attractive exhibits for flower shows in Chicago and Lake Forest. Briar Hill is one of the finest of the north shore estates.

The Late Edward Meehan.

The death of Edward Meehan, which was briefly announced in last issue, removes a remarkable man in many ways. He was one of the three brothers, Thomas, Edward and Joseph Meehan, and while not in the limelight like Thomas or Joseph, he was the great worker of the outfit and practically ran the nurseries. He was a fine propagator and grower and had a keen gift for detecting variations and improvements. It was from his close observation and superior discernment that many of the best new introductions of the firm were due and the world at large owes him a tribute of honor. He came from England when he was 14 and was hard at work in the nursery business for some 65 years—in fact he was practically in harness until his death at the age of 79. Thomas was the scientist and writer and gatherer of fame: Joseph was office chief; and Edward the field general—a great outfit; two of whom have now been gathered to their fathers, full of years and honors, but leaving worthy successors to carry on their work. Joseph still remains with us, hale and hearty and pretty active.

NEWS NOTES.

Ainsworth, Ia.—Arthur Peterson has bought the Melinsky greenhouses.

Chambersburg, Pa.—A new greenhouse building establishment has been formed by Hiram Plasterer, with office on Baltimore avenue.

Baraboo, Wis.—E. T. Ross has purchased the Wm. Peck greenhouses on Fifth street and will remove them to his place on Eighth street.

Sioux City, Ia.—C. G. Johnson has purchased the Peter Reard farm for his two nephews, who will conduct a greenhouse and truck gardening business.

Southington, Ct.—The greenhouse business of Olsen & Lundin, which was placed in the hands of a receiver some months ago, has been purchased by Irving Michael, of Wallingford.

St. Joseph, Mo.—The Kelsey Nursery Company are about to erect a frost-proof storage building, of brick and tile, 140 x 180, close to the Rock Island R. R. tracks. A brick office 20 x 30 will be attached. The cost will be between $20,000 and $25,000.

SOILS AND FERTILIZERS.

(Abstract of a lecture by Prof. H. J. Wheeler before the Massachusetts Horticultural Society.)

"The types of bacteria, fungi, protozoa, and other beneficial or injurious organisms in soils are affected," said Mr. Wheeler, "by the amounts and relations of mineral and dead organic matter present and even by the chemical reaction. Organic matter is highly essential in giving to the soil proper tilth, in improving its physical aeration, its water-holding capacity, and its power to absorb and hold plant food. Soil is no longer looked upon as a lifeless mass, but as teeming with low forms of plant and animal life.

"It is impossible," said Mr. Wheeler, "to follow all the lines of agricultural investigation. One of the most important was the establishment of the fact that legumes and certain other plants assimilate nitrogen directly from the air. This was shown by Hellriegel and his associates in Germany, to be due to the intervention of micro-organisms which grow on the roots of the plants and cause the development of the peculiar nodular growth.

New Theories Concerning Soils and Nutrition.

"Many new theories concerning soils and plant nutrition have recently been advanced. Among these is the idea that the chief function of fertilizers is to improve the physical condition of soils, also, that fertilizers are not needed as plant food, on the supposition that the minerals represented in the soil are present in sufficient quantity to be dissolved and replenish the soil solution rapidly enough to meet the plant requirements. It has also been claimed that poisonous substances develop in the soil as the result of the decomposition of decaying vegetable matter, and also in the shape of excreta from the roots of plants.

Fallacious Ideas.

"The idea that fertilizers are useful chiefly for improving the physical condition of the soil has since been abandoned. It has also been shown in an article published within a few weeks by former director Hall of the Agricultural Experimental Station of Rothamsted, England, that at least wheat and barley plants after growing in the soil for sixty years continuously have not thrown off toxic excreta capable of accumulating in the soil. It is stated by Mr. Hall, as a result of these and further experiments by him, that fertilizers have been returned to their old category as plant foods and that the theories advanced by the Bureau of Soils in Washington concerning them, are fallacious. He has also shown that where mineral fertilizers are added to the soil in excess of the immediate needs of the plants, they are stored in such forms as to be subsequently highly available. It was even found by Hall that barley throve better in extracts of soil in which barley had been grown for sixty years than in artificial solutions containing the same quantities of mineral ingredients. This he attributed to the possible benefit of small amounts of soluble organic materials, which had accumulated in the soil.

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FOR FLORISTS AND GARDENERS

Formulated and Manufactured by men who have made a life study of

FLOWERS—FRUITS—VEGETABLES

UNDER GLASS

In this Country and Abroad

Proper fertilization under glass is more important than fertilization out of doors—and

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We are also manufacturers of MAK-GRO Odorless Plant Food put up in one pound tins and five pound bags—a splendid side line for Florists operating their own stores.

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APHIS PUNK For Fumigating

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Some Rhode Island Experiments.

"In the experiments which I conducted in Rhode Island, where about fifteen different kinds of plants were each grown on a separate area for two successive years, with like fertilization, it was found that when onions followed the third year on all of the areas, the yields ranged from 12 to 412 bushels per acre according to crop which had preceded. The continuation of this work by Director Hartwell has shown that buckwheat was able to thrive better where onions had failed than elsewhere. These results show that in the plan for treatment and fertilization, one must take cognizance of the previous manuring, fertilization, and cropping of the land as well as the kind of crops which are to follow. The fact that certain poisonous substances develop in soils was long ago recognized in Holland by Mulder, in England by Voelcker, and in other places in Europe by still other investigators. It was even found more than twenty years ago in connection with the experiments in Rhode Island that ammonium sulphate, which had proved at Rothamsted, England, to be a good fertilizer, was immediately poisonous on the highly acid Rhode Island soil. After liming, it became, however, highly effective.

"Even nitrate of soda, highly esteemed as a fertilizer, may seriously injure the physical condition of certain soils and such injury is capable of being corrected upon the application of sulphate of ammonia. Such facts, as well as the possible loss of nitrates by drainage, illustrate certain advantages of ready-mixed, commercial fertilizers in which the nitrogenous ingredients are introduced in several forms so that losses from leaching may be avoided and so that the supply necessary to plants may be continuous throughout their growing season.

So-Called Plant Poisons.

"Certain of the so-called plant poisons, which develop in soils, appear to be both food and medicine for certain other groups of plants. An instance of this is afforded by the fact that under conditions where onion plants will die, cranberry plants thrive better than if the soil is corrected so as to meet the needs of the onions. Similarly mignonette cannot be grown on soils which are nevertheless ideally adapted to Silene orientalis, aster and

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FOR SALE:

Old established greenhouse business in western New York; four [illegible] construction; well stocked; all land you want; money maker. Investigate. Address M. S., this paper.

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THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

many other of the flowering plants.

"Recent investigations at the Indiana station show that in some cases where the tilth of the soil had been improved by the introduction of vegetable matter, and where there is an abundant supply of ordinary plant food, crops failed to thrive because of the presence of aluminum nitrate. It was shown, however, that upon the addition of lime, the alumina is precipitated, the nitric acid combines with lime, and the plants then thrive splendidly.

Raw Rock Phosphate.

"Certain speakers and agricultural writers in the Middle West have designated fertilizers as 'stimulants,' thus creating the false impression that their effect is but temporary and that the after-effects from their use are bad. This is absolutely misleading to the public and is nothing short of an attempt to create prejudice without the least justification for doing so. In the Middle West much attention has been called to raw rock phosphate and speakers from that section have even come into New England and recommend its general use here. It is of special interest, therefore, to note that the director of the Ohio station as well as the investigators at the Tennessee station, who are close to the source of raw rock phosphate, hold that superphosphate is more economical for use in their states than the raw untreated material. Results at the Rhode Island station in the earlier years of the experiment, when like money values of different phosphates were used, further substantiate the results as reported from Ohio and Tennessee.

"Experiments by Loew show that it is sometimes of great importance to add lime to soils for the purpose of counteracting the effects of an unusual amount of magnesia. There may also be cases where the addition of magnesia to a soil may be beneficial on account of the lime being in excess. The requirements in these particulars vary with different plants.

Usefulness of Soil Disinfectants.

"Interest has been awakened in the subject of the treatment of soils by the fact that carbon disulphide, toluene and various other soil disinfectants have been found to be highly beneficial. According to the results at the Rothamsted Experimental Station, this is due in some cases to the destruction of microscopic forms of animal life which feed upon the useful bacteria. When these animals are destroyed the bacteria increases enormously with marked benefit to the soil. Investigations in Europe and at the Agricultural Experiment Station in Rhode Island show that sodium, if present in fertilizers, whether as nitrate of soda or as common salt in association with muriate of potash and kainit, is of use to certain plants if the supply of potash is insufficient, whereas there are cases of plants which show but little, if any ability to benefit by it.

"Recent utilization of great waterfalls for the generation of powerful electrical currents has made it possible to combine the gaseous nitrogen of the atmosphere in such a way that calcium cyanide, calcium nitrate, ammonium sulphate and ammonium nitrate are now coming on the market as plant foods. The nitrogen of the air surrounding the earth, which could formerly be utilized through the aid of leguminous plants, may now, therefore, be made our priceless possession for the nutrition and maintenance of the human race."

FLORICULTURE DAY AT AMHERST.

Section 4, which is devoted to floriculture, had a busy day, with every period taken by a lecturer. Professor A. H. Nehrling, who has but recently taken up his work as head of the floriculture department at this college, was the first speaker. His subject was "Opportunities in Floriculture." In the absence of Harry A. Bunyard, Asa G. Kinney of Mt. Holyoke College, spoke on Mushroom Culture.

T. D. Hatfield of Wellesley was the concluding speaker of the morning, and his subject was Raising Plants from Seed. He brought out numerous valuable points in regard to the probable effects of pollination and acclimatization of plants grown from seeds. Eber Holmes was the first afternoon speaker, his subject being Outdoor Rose Culture. He first discussed the varieties of roses best suited for outdoor planting and the kind and type of plants which should be bought. Factors of location, soil, methods and time for planting, methods of culture during the growing season, care during fall and winter were treated each in its turn. He discussed the different insect pests and fungus diseases, and methods of combating them. In closing he called attention to the profits which may be realized in growing outdoor roses, as well as those grown in greenhouses. E. J. Canning gave a general practical talk on "Methods of Improving Plants." He discussed the three principal factors of amelioration of plants, cultivation, selection and crossing.

The concluding talk of the day was by Professor Nehrling on Glass Houses in the Middle West. He called attention to the fact that architectural features as well as details of construction must be considered in planning conservatories for park or private use.

There were over 1000 visitors who attended the third session of Farmers' Week at M. A. C. in spite of the weather.

W. H. HATFIELD.

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NO ODOR INSECTICIDE NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

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420 W. Lexington St., Baltimore, Md.
Directions on every package

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.
Bag of 100 lbs. $3.50.
Let us quote you prices in quantity.

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Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

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The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."
It will only require the hose to wash off dead scale.
A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.
75c. per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.
$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.
$1.50 per gallon—10 gallons $10—50 gallons $37.50.

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.
$1.50 per quart—$4.50 per gallon.

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This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

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We offer the genuine in original cwt. Sacks, at:
$2.75 per 112 lbs.; $12.50 per 560 lbs.

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BIG BLOOMS

and Strong Plants guaranteed. Mix DAVIDGE'S SPECIAL PHOSPHORIC with planting and potting soil. When roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

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A waterproof paper pot.

Does not fold up or come apart.

Plants in transit retain moisture within the plant ball instead of its being absorbed by the packing, insuring their traveling long distances in perfect condition.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

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1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
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800	3½	"	" 5.80	120	7	"	" 4.20
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OUR SPECIALTY — Long Distance and TradeExport

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If your greenhouses are within 500 miles of the Capitol, write us, we can save you money
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New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
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Chalfonte, Pa.—Chalfonte Cut Flower Co., King house, 35x250.

Brighton, Wash.—Ivan Risdon, one house, 30x75; one house 16x75.

FIRES.

Baldwin's, N. Y.—George T. Schunneman's boiler shed was burned down on Friday, March 20.

Mt. Zion, Pa.—The greenhouse of Ezra Rozelle was partially destroyed by fire March 13th, causing a loss of $1000; partially covered by insurance.

Bayside, N. Y.—A greenhouse occupied by John Hart at 7th street and Warburton avenue, was destroyed by fire on the night of March 19. The loss is estimated at $2,000 on the greenhouse and $2,000 on the contents.

Springfield, N. J.—A large fire occurred on March 17th, at the F. & F. branch of the American Nursery Co., in Morris avenue. The loss, estimated at between $10,000 and $15,000, consisted of a large barn, six valuable horses, five wagons, ten sets of harness and contents of barn. The fire was discovered shortly before ten o'clock by Emil Stemel, an employe of the nursery. It is thought it had been smoldering for some time before it was discovered. Great credit is due the Springfield and Milburn fire department for confining the fire to the barn.

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1,090,267. Device for Cutting Grass. John H. Berry, Newton, Ill., assignor of one-fourth to James A. Bowles, Villa Grove, Ill.

Short Hills, N. J.—Thomas Jones is suing the Public Service Gas Co. for $6,000 for loss of orchids killed by gas escaping from a broken pipe last year.



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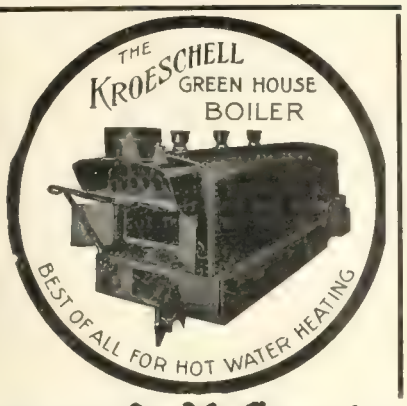
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are practical, first, last and all the time. Every detail is the result of careful study.
Sunshine makes things grow and a King simply captures every ray of sunlight.
Write us for information no matter how inexpensive or extensive a house you need.
King Ideal Boilers and King Air Valves are worth investigating.
KING CONSTRUCTION COMPANY
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

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Builds Good Greenhouses
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Will not twist the shafting pipe. Three times the power of old style elbow arms Sold only with Evans Challenge Machine
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PECKY CYPRESS BENCH LUMBER

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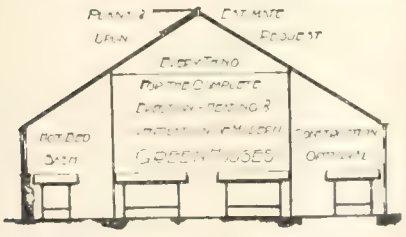
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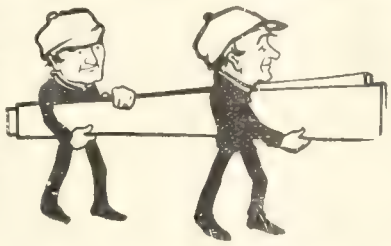
IRON or WOOD SASH BARS

In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.

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JERSEY CITY, N. J.

The President Points Out Some Cypress Points



IF I could take you out to our lumber piles and throw down a few boards and point out blue sap and white sap in the cypress, and then show you cypress with the shakes and cypress that is pecky, and then take you into our wood working mill and show you the kind of cypress we were actually running through the machines for our greenhouses, you would then begin to appreciate what a really good enduring house such as we make, is worth every cent we charge for it. You would begin to get a line on the kind of materials we use and the careful way they are handled.

You would see us sifting out and discarding sappy parts. You would see our foreman refusing to pass rough netted parts. You would see on every hand inspections of materials from the raw to their finished state. You would hardly begin to wonder how we can hand so good a house for so reasonable a price.

Put this down in your memory box that entirely sap free "cypress" is next to impossible to buy nowadays, just as is knot free or clear pine. The only way you can get sap free materials, is to get materials from cypress with their objectionable sappy parts cut out. There's no greenhouse concern in this country today, that sells materials that their cypress is any freer from sap than ours.

The other day I overheard our wood working foreman saying, "The President is a regular crank about the cypress that goes into the materials." He's got the right idea about me and I'll see to it that he keeps his idea right.

If you want a house built of materials put on by men with the right idea back of them, from one end of the house to the other, we have a notion you will find a talk with some one of us to your advantage. Write us or, "we go anywhere for business."



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OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us

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714 Chestnut Street, Philadelphia.



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for GREENHOUSE and HOT BED SASHES. Our prices can be had [illegible] mail, and it will pay you to get them. We carry the largest stock of Special Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice. Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

Three Growers Tell How Their Lord and Burnham Houses Stood the Snow and Blow

JAS. HAMILTON, Mt. Washington, Md.

I thought you might be interested to know that we have just emerged from the most severe Cyclonic Storm that ever visited this section and while trees were blown down, windows blown in in dwellings, houses twisted, etc., all around us, the two houses 42 ft. 6 in. x 100 ft which we got from you and erected in 1911 and 1912 came through without as much as a single cracked glass. When you consider that this storm lasted for about 30 hours and for about 8 hours of that time the wind obtained a velocity of 70 to 75 miles per hour, it speaks volumes for both your material and our construction.

Yours,

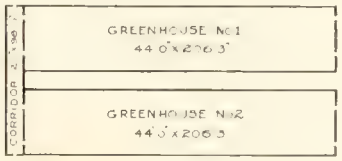
Jas Hamilton

STEVENSON BROS., Towson, Md.

Last Sunday night and all day Monday our L. & B. houses were subjected to a cyclone of wind and snow. We thought at times that we would lose all of our glass. The wind at times reached a velocity of 80 and 90 miles per hour. Fortunately we lost less than two dozen lights and the frame work was as rigid as a stone wall during the gale. The worst by far, we have ever experienced, as our houses are in very exposed place. Their resistance to the storm was remarkable.

Yours very truly,

Stevenson Bros



HULL BROS., Waymart. Pa.

Perhaps it may interest you to know that we are very highly pleased with the greenhouse we got from you. We have a fine crop of lettuce in it, which is selling rapidly at good prices.

Other stuff is growing nicely there, too. We used muck for soil there, and are quite sure it is the very best for greenhouse use.

The house is very attractive, and we feel that it is a great credit in every way.

During the awful storm of the 1st inst. the greenhouse stood as quiet as a rock, although it stands in a very windy place. This same storm unroofed and demolished buildings for our neighbors too. The boiler pleases us, too, because it was no trouble to keep the temperature even too high, when 15 degrees below zero, and wind blowing a gale at midnight. It will not burn culm well, but we think that it is practically impossible without some sort of a blower, which we expect to install before another season. Burns buckwheat coal well. Will say that we are very much pleased with the way you dealt with us, and with the quality and style of the material you sent. We hope to build more houses soon, and will not forget you then.

Thanking you and with best wishes, we are,

Yours very truly,

Hull Bros.

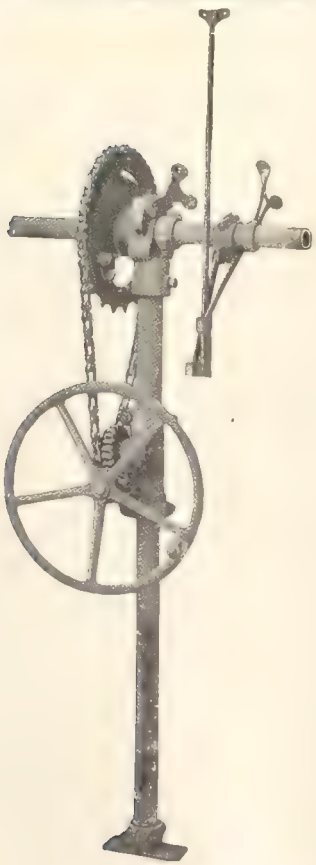
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If so write us for one of our catalogues at once. Better get one anyway for reference when in need of anything in our line.

You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate.

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It will be to your mutual interest to write us now concerning the work you will have and let us quote you.

ADVANCE CO.

Richmond, Ind.

Spring Trade

HORTICULTURE

Vol. XIX APRIL 4, 1914 No. 14



EASTER NUMBER

CLAGGETT

A Kut in Kannas

KING HUMBERT—$1.75 per 100, $15.00 per 1000

when other varieties are ordered in fair proportion—otherwise prices as below

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F. O. B. NEW YORK OR CHICAGO

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Occasionally you hear a "KNOCK" regarding our Cannas, but when you trace and run it down, you will find that the "hammer is out" from the fellow who has Cannas to sell.

During the past ten years we have sold over 5,000,000 Cannas and our trade for this stock is increasing every year; doesn't look as if our Cannas were poor or untrue, does it?

This year our growing stock was inspected by Mr. Boddington personally. No, we don't grow them ourselves in New York city; they are contracted and grown for us by— (To be continued in our next.)

Also, we were the first to popularize the Canna and to put King Humbert within the reach of all. We put the "Can" in Cannas and we are going to keep it there.

Red-flowering, Green Foliage

LOUISIANA. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
A. BOUVIER. 5 feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.
BLACK PRINCE. 3 to 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
CHARLES HENDERSON. 4 feet. 25 cts. per doz.; $1.85 per 100; $16.00 per 1000.
DUKE OF MARLBORO. 4½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
J. D. EISELE. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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PRESIDENT CLEVELAND. 3 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
PRES. McKINLEY. 2½ to 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PRES. MEYER. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
PILLAR OF FIRE. 6 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
TARRYTOWN. 3½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

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ALSACE. 3½ feet. 30 cts. per doz.; $1.75 per 100; $15.00 per 1000.

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L. PATRY. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
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Bronze-leaved, Red-flowering Cannas

BRANDYWINE. 4 to 5 feet. 50 cts. per doz.; $2.75 per 100; $25.00 per 1000.
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KING HUMBERT. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
LEONARD VAUGHAN. 4½ feet. $3.75 per 100; $35.00 per 1000.
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Red, Gold-edged, Spotted and Yellow Cannas

GLADIATOR. 4 feet. 30 cts. per doz.; $2.00 per 100; $18.00 per 1000.
GLADIOFLORA. 3½ feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
JEAN TISSOT. 5 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
MAD. CROZY. 5½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
QUEEN CHARLOTTE. 3½ feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
PREMIER. 2½ feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.

Yellow Shades

FLORENCE VAUGHAN. 5 feet. 40 cts. per doz.; $2.75 per 100; $25.00 per 1000.
RICHARD WALLACE. 4½ feet. 30 cts. per doz.; $2.00 per 100; $17.50 per 1000.

Orange Shades

WYOMING. 7 feet. 35 cts. per doz.; $2.00 per 100; $18.00 per 1000.
PENNSYLVANIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

Orchid-flowering Cannas

ALLEMANNIA. 4 to 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
AUSTRIA. 5 feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.
INDIANA. 6 feet. 35 cts. per doz.; $2.00 per 100; $17.50 per 1000.
ITALIA. 4½ feet. 30 cts. per doz.; $1.85 per 100; $16.00 per 1000.

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FURST BISMARCK. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GRAND CHANCELLOR BULOW. 3 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
GENERAL MERKEL. 4 feet. 35 cts. per doz.; $2.25 per 100; $20.00 per 1000.
WILLIAM SAUNDERS. 3½ feet. 60 cts. per doz.; $4.75 per 100; $45.00 per 1000.

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We are the largest handlers of Cannas in the world. Our prices on Cannas will bear comparison with any house in the Canna business.

Our Cannas are true to name—two and three and sometimes four eyes—are sound, dormant, and are packed 250 in a box. Two can be "cleated" together and shipped as one. One box of 250 sold at thousand rate; it is cheaper for you to buy a box of 250 than 200 at 100 rate. Write for special prices on quantities.

If any Cannas are not found here, it may be understood that they are superseded by the foregoing. If selection is left to us we will substitute or send only the best for all purposes.

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A general assortment of bedding plants ready for immediate shipment. Special price on large lots.

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When writing to Advertisers kindly mention Horticulture

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY OF THE NEW YORK BOTANICAL GARDEN

Care of Sweet Peas

To make sweet peas hold out as long as possible, bear in mind that they are naturally cool, moisture loving subjects and no attempt should ever be made to force or coddle them. There are few days after April comes in when the ventilators cannot be opened for at least a few hours daily. Growth is now rapid under glass, and unless the plants are looked over frequently, there is danger of the haulm becoming bent which will spoil the flowers for sale purposes. Sweet peas should be watered so as to keep the soil always in a moist state. When the flowers are picked give a good syringing. Plants flowering should be supplied with liquid manure once a week, or in place of this have a top dressing of cow or sheep manure hoed in before watering. A night temperature of 50 degrees will be about right.

Dracaena indivisa

To have vigorous stock of this unapproachable vase plant give it good attention. Seed that was sown early in the year, when large enough should be potted into small pots, this will hold them until they can be planted out in the open ground, which is better then growing them under glass during the summer. Use a compost of fibrous loam three parts, well-rotted cow manure and leaf mold one part each. Give them a light warm house so as to push them along and exercise caution as to watering. Do not keep in too low a temperature. About 60 degrees will grow them on in good shape. On all bright days give them a good syringing which helps to keep them clear of thrips.

Overhauling Poinsettias

Do not wait too long before overhauling the poinsettias. Old plants that have been resting since the new year can now be started, shortening back the stems and repotting in as small pots as the roots will permit. Remove all stock plants to a well-lighted bench where there is a temperature of about 65 degrees at night. Give them a good soaking of water and then keep rather on the dry side until the plants start to break and they will soon produce a quantity of fine cuttings. When cutting in, you can use the old-wood cuttings; by placing in a warm frame and keeping the temperature from 65 to 70 degrees, in about three or four weeks they will be rooted. Pot them into 3-inch pots, using a good loam to which has been added one-fourth of rotten manure. Cuttings can be rooted at any time from now until the middle of August. Those propagated in July and August are fine for making up pans, but the earlier ones will give the finest bracts for cutting.

Sowing Palm Seeds

There is many a grower who has some room to spare and could to advantage raise some palms from seed. It is during the spring and summer that the greater number of shipments arrive. The seeds can be sown in a bench, flats or pans where they can have a bottom heat of 75 to 80 degrees. When planting palm seed remember that they will not come up in a couple of weeks like most seeds. Palm seed germinates very irregularly and the germinating period varies according to the variety, anywhere from four weeks to six months. Leaf mold, sand and loam in equal parts, make a good compost for any variety. Give them a house with from 65 to 70 degrees at night. They will germinate better if given a closed sash where they will have a bottom heat of from 75 to 80 degrees. As the hot weather comes on a mild-hot bed makes an ideal place. When they show one or two leaves pot off singly into 2-inch or 2½-inch pots.

Transplanting Primulas

The earliest sown primulas are now nice little plants with several leaves. Timeliness in transplanting is a point principally to be observed in growing primulas. Use a compost of equal parts of new soil and leaf mold, with a little well decayed cow manure. Give a light shelf or bench where the temperature will not run over 50 degrees at night. These plants will grow from this out so in about six weeks they should be ready for 2-inch pots using a compost of fibrous loam four parts, well rotted cow manure and leaf mold one part each. Give air daily whenever possible, but always avoiding cold draughts and do not try to force them. They are benefited by a light shading during the hottest hours of the day. Never let them suffer for the want of water and syringe on all fine days. A comfortable spacing out once a week will give them more room to grow. Look every ten days or fortnight for aphis, and where they are seen fumigate immediately.

Preparing Beds and Borders

The necessity of attention to all beds and borders, on the opening of spring, is so evident that it is scarcely necessary to urge it. All beds and borders should now have a good cleaning and be put in the best order. Give them a good coating of well-rotted manure which can be dug in lightly. All hardy herbaceous perennials should be uncovered and lightly worked over and also manured, as these plants are rank feeders.

Mr. Farrell's next notes will be on the following: Care of Seedlings; Chrysanthemums; Alocasias; Orchids; Young Marguerites.

As an Advertising Medium Horticulture has NO superior. Because they ALL read it. And they read it ALL.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr Ružička. Such communications should invariably be addressed to the office of HORTICULTURE.

Selection of Sod for Next Fall

Now will be the time to select the plot of ground that is to furnish the sod heaps next fall. Select a piece that has a good sod on it, and then as soon as possible spread a good coat of manure over the field, and then keep the grass cut. It is not best to rake it off. Much better results will be had where the grass is allowed to lie there after it is cut, thus making an additional coat of fibre that is so badly wanted in greenhouse soils. If the grass is kept cut short all through the growing season it will produce an enormous quantity of roots, and it is these that hold the earth together and make the sod. A little bonemeal may also be applied every once in a while, if the season is wet so that the grass will take it. Do not think that it is wasted if applied to grass land. There is only one way that manures applied to a grass field are wasted and that is where it is on a hillside where the soil will wash. Of course under such conditions it would not be advisable to apply the manure as a good deal of it will be lost in the first heavy rain that comes along. Where the ground is almost level and the water will not run into the creek, but will slowly sink into the land, the grass roots will quickly catch all the manure that may be washed out. These roots will hold this plant, and as soon as warm weather comes will turn it into a heavy coat of grass. This if cut and allowed to lie will help thicken the sod. It may seem a waste to allow a perfectly good crop of hay go to waste, but unless the hay would be of exceptional quality, and very high priced, it will pay to simply mow it down. Where manure is plentiful this may be used instead of the cover of grass cut green, but we think there are a few places indeed where there is a surplus of this much needed plantfood.

Turning Over the Sod Heaps

Even with the rush of the spring work, it will pay in the end to take a little time, and turn all the sod that is to be used for the houses this summer. The manure that has been put in will be mixed with the soil much better and as a result it will be in much better condition at planting time. If all the turning is left until planting time, there will be some places in the benches that will be all manure and then there will be places where there will be none at all. And what is worse, the soil has been packed so between the layers of manure that all the water and plant food that has been leaching out has managed to run off to one side and out of the heap. This would be avoided if the manure was mixed with the soil as it should be. Therefore it is well to turn the heaps over, and break up the sod and mix the manure well with it. If you can, add some very coarse bone. This will take time to dissolve and will be about right when the soil is put into the benches. With the ever-increasing expenses, no time must be lost between crops. Run the old plants as long as they are paying, and then lose as little time as possible in getting the young plants to produce flowers. This must not be overdone, however, for too much summer forcing means dead plants in the winter when the prices are higher, although the margin of profit may not be much greater, for the summer expenses are much smaller.

Syringing

With the warmer weather will come the spider, if allowed to go unchecked. Syringe the plants as often as possible using a good force and clean water, for if the water is taken from ponds or similar places there may be a little sand in it, and this will tear the leaves all to pieces. Water alone will do this if the hose is handled a least bit carelessly. See that the water reaches well underneath the leaves, and that the plants are syringed more from the inner walks toward the front of the benches, then taking only the one row from the front. If the plants are syringed in this way there will be little danger of getting the plants too wet on the north side of the benches.

Liquid Manure

If the roses are growing at all they will take as much of this as it is possible to give them. It can hardly be made too strong for the plants are well rooted by this time, and will take it without harm if they are not too dry at the time it is applied. This can be overcome by watering with clear water just before the manure water is applied, and it will save a good deal of the liquid as well as protect the plants. If this is done there is no need to apply too much of the liquid manure — just enough to soak the soil with it. See that there is not too much nitrate used, or other chemical fertilizer. Use cow manure alone with a little bonemeal dumped in, or a little soot. Where two sets of pipes are used it will be a very easy matter to water with clear water and then follow with the liquid manure. We are sure growers that have been using the one set only and have installed the other set will say that they cannot see how they ever got along with one set before. One good thing about two sets of pipe is that you may be syringing in one house, watering in another, and using liquid manure in the third. This is impossible with one set and where the strictest economy is practised it will pay to have the two sets. The liquid manure pipes should be of good size so that they will not be very likely to get stopped up every few minutes. Time is worth a good deal of money, and time saved means money saved, and more.

Cymbidium insigne

This handsome cymbidium is still quite rare in cultivation and no doubt to many still unknown. It was introduced some eight years ago from Annam, where it was found growing along ravines in sandy soil at an elevation of 4,000 to 5,000 feet. In shape the flowers resemble those of C. Lowianum, but the color is a beautiful pearly pink throughout, the inside of the lip and the column being in addition blotched and spotted with rich carmine. The scape grows erect to a height of from three to four and a half feet. The leaves are long and narrow and the pseudo bulbs rather small and nearly round. The blooming season is April and the flowers will remain in perfection for many weeks.

Here we certainly have a splendid orchid for decorative purposes, one which would sell readily if it could be had in quantity, which I hope will be soon. It requires a little higher temperature than C. Lowianum and its allies, and a lighter and more open compost. It will be found to do well with the cattleyas.

M. J. Cope



How We Might Improve

Conditions in New York for florists are better than in most parts of the civilized world. The same thing is true for the grower, if we did not spoil it ourselves. The grower who grows the stock, the grower who wants to sell the stock, does not always look for the right channel as an outlet, and the retailer who aims to keep up to a certain standard does not help sufficiently that the grower may do that. Not so much because he does not want to, but because he never thought of it, that where one alone is too weak, two might be strong enough. The public are today so far advanced as flower buyers, that when they have guests they must have flowers on their tables, in their rooms, wherever their place can be improved with flowers. Statistics show that one-third of the flowers sent by the grower to the wholesale market are sold far below the average price. On the other hand it is plain that the retailer who buys the high-grade stock at full prices has thus to pay for the stock which is left over. But is it a necessity that stock be left over? By no means. Fifty out of every one hundred buyers make it a custom to patronize two florists, one of whom keeps a high-grade stock, and sells at the standard prices. But when they merely need cut flowers for the house, they go to places where they get this stock at prices often far below the wholesale value, so ridiculously low in fact, that a grower would blush if he knew how his stock was sold. Now, those people who buy their arranged flowers, centerpieces, bouquets or other arrangements from good florists would just as readily pay a fair price for their flowers if there were not someone calling to them, "We will give you *jonquils* at 19c. a bunch and we will give you roses at 25c. a dozen." These people must have flowers for their houses, not as a luxury, but as a real necessity. They are taught to have flowers as they are taught to have their clothes, as a necessity of refined living, and if they could be brought to realize how the florists' business and the growers' work is degraded, they would not know between the good and the poor florist. They would only patronize sound competition and buy from good florists only. Then, if they were not given a chance to learn what surplus is in the market, their business would go steadily to the general trade, which would reduce the leavings in the wholesale market, so that instead of one-third these leavings would not be one-tenth, which the wholesaler has to dispose of at such ridiculously low prices.

Business prospects for spring are very good. Business was never better. A few have done a smaller business than their average year and they begin to cry and other people cry after them, and they are so used to crying that they spoil the pleasure of having a good business for others. It is time to wake up and cheer up and take notice that a promising Spring is coming.

Max Schling.

HORTICULTURE

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Boost Horticulture's Advertisers

This is our annual Easter number. Less pretentious than some of its predecessors, but circumstances this year seemed to favor the spreading out over several issues of the customary advertising support which made a large Easter number a possibility and, as our readers are aware, the present is our third "special" number in three weeks. The Easter season comes at the time when bustle and activities prevail in every department of the avocations in which HORTICULTURE's readers are engaged or directly interested. We all look for the activity and bustle to continue and grow lustily after the Easter awakening. The advertisers in this and the two preceding numbers are particularly interested in the immediate seasonable trade. They evidently believe that advertising in HORTICULTURE is the most direct route to a prompt and substantial revival. We ask our readers to do their part to demonstrate to these enterprising representatives of the profession, that their faith in HORTICULTURE was well placed. Send them your spring order and make it a good one.

Our friends in Washington

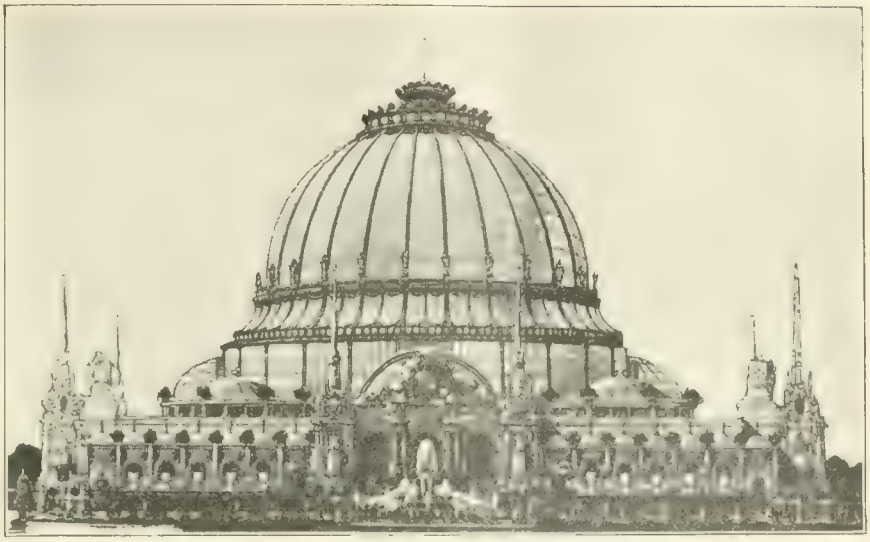
We would call attention to the notes which appear in our news columns relative to the work which the U. S. Department of Agriculture is undertaking, in securing information on the behavior of ornamental plants in all parts of the United States. This is a new phase in the regular work of the Department and the attempt should have the hearty cooperation of every one engaged in plant cultivation for ornamental purposes. This end of horticulture has thus far been given but meagre attention and the disposition now manifested is very gratifying, coming, as it does, just as the Agricultural Colleges and State Experiment Stations are also showing an interest in the advancement of floriculture and the development of ornamental gardening generally. The Department of Agriculture has done and is now doing much that is great and good for the health and sustenance of our people. But "man shall not live by bread alone." As our dear old W. R. Smith was wont to say, we must also "feed the esthetic soul of mankind" and the present broadening out of the Department's activities in this direction should receive all encouragement possible.

What "pull-together" will do

It is in order now to congratulate our New York friends on the complete success of their spring flower show. This happy consummation may be attributed to various causes but the main reason back of all other reasons was the hearty joint participation of trade and amateur interests which was brought about through the well-directed alliance between the Horticultural Society of New York and the New York Florists' Club. Lacking the enthusiastic support of either of these organizations the result would probably have been very different. Plans for an annual repetition are a natural sequence to this success and there appears now no good reason why a spring flower show in the metropolis may not be counted upon as a regular attraction each year. The solving of the great problem of years, so long regarded as insurmountable, is not only a great thing for the well-being of horticulture in and about New York but for other cities as well, furnishing incentive and stimulus and a wholesome lesson which will inspire confidence and courage to go in and win. Thus New York's victory will be far-reaching and we shall all, either directly or indirectly, share in the resultant benefit.

Panama-Pacific Notes

The query is often made "will the San Francisco Exposition" be ready on time?" For the information of our readers we are publishing this week two cuts—one showing the progress made in the Palace of Horticulture, which was made for the Chief of the Department, G. A. Dennison, when he left San Francisco on March 18, and the other made from the architectural drawings of the completed building. The Palace of Horticulture is 320 feet in its greatest width by approximately 700 in length and the dome, which is constructed entirely of steel and glass, is 185 feet high. It will be finished July 1, 1914. It is prominently located immediately to the left of the main entrance of the Exposition grounds and faces the South Gardens, which will constitute the main horticultural feature of the landscape-gardening departments. Surrounding the Palace of Horticulture, on the east, west and north, will be the Horticulture Gardens, in which will be installed the outside growing exhibits of the leading producers of the world. The Palace is divided into two sections, the conservatory section which will be arranged to accommodate plants requiring varying temperatures, from 45 to 80 degrees, and the section devoted to economic horticulture, pertaining to fruits and nuts and their derivatives, machinery employed in culture, etc., etc.



Palace of Horticulture When Completed



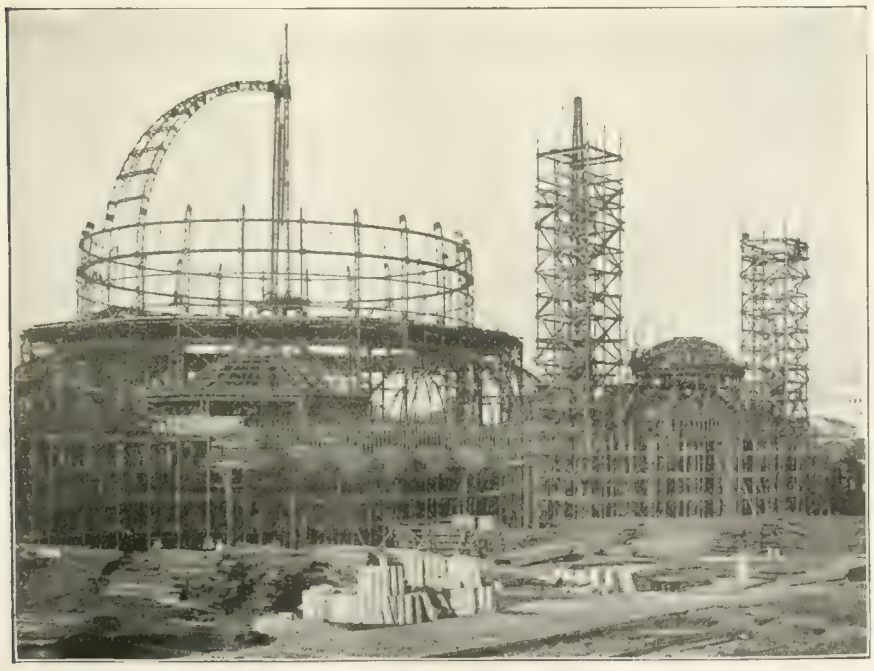
G. A. Dennison.

G. A. DENNISON.

The gentleman whose portrait appears herewith has already made many good friends in the eastern section of the country where he is now traveling as Commissioner for the Horticultural Department of the Panama-Pacific Exposition, of which he is Chief. Mr. Dennison is well experienced in his work having officiated in three or four previous World's Fairs and seems to be just the man for the position he fills. In New York where he attended the Flower Show and in Boston this week he has been in consultation with prominent growers and dealers and we understand that already large exhibits from various eastern specialists have been pledged for the big exhibition on the other side of the continent next year.



William Plumb.



Palace of Horticulture as it Appears Now.

We are in receipt of the information that the advisory committee of the Horticultural Department of the Panama Pacific Exposition met on March 27 and unanimously endorsed William Plumb for the position of Superintendent of Floriculture. The formality of appointment by Mr. G. A. Dennison, Chief of Horticulture, will unquestionably follow in due time. Mr. Plumb is well and favorably known among the horticultural fraternity and his selection for this important post will be universally approved.

CLUBS AND SOCIETIES

OYSTER BAY HORTICULTURAL SOCIETY.

The regular meeting of this Society was held on March 26. A letter was read from the National Association of Gardeners with reference to co-operation.

W. Robertson spoke on the growing of cinerarias and antirrhinums and Joseph Robinson on carnations. James Duthie also spoke on the growing of schizanthus and Mr. A. Patten on the growing of antirrhinums. A very interesting essay on dahlias was read by James Duthie and was greatly enjoyed as Mr. Duthie is a past-master on the growing of the dahlia. An invitation was extended to the members by the Nassau County Horticultural Society to attend a lecture on April 8, on "Home Gardens."

First prizes were awarded to Wm. Robertson for cinerarias and F. Petroccia for violets. Cultural certificate to John Devine for antirrhinums and honorable mention for stocks. Cultural certificate to Wm. Robertson for cinerarias and to James Duthie for fine collection of pot plants. The silver medals given by Fottler, Fiske, Rawson Co., of Boston were duly presented to James Duthie and John Sorosick.

The dates for the shows were set as follows: Summer show, June 18; Dahlia show, Sept. 30 and Oct. 1; Chrysanthemum show Oct. 30.

W. Robertson will read an essay on Mushrooms at the next meeting, April 22. Prizes at the April meeting will be for 3 lettuce, 1 pot campanula, any variety; 6 tulips, any variety.

F. KIRKMAN, Secy.

A GREENHOUSE GATHERING.

Some time ago at one of the meetings of the Buffalo Florist Club an invitation was extended to the members and also to all fellow florists by S. A. Anderson to spend a short time in inspecting the greenhouses on Elmwood avenue. This took place on Sunday, the 29th, and a delegation of sixty turned out.

It must be said that the stock in those houses looked in the pink of condition and the Easter stock will be immense. There are genistas, azaleas, Giganteum lilies, hydrangeas, Hybrid roses, Ramblers and Baby Ramblers and any amount of spirea and bulbous stock. A short meeting was called to order by President Eiss, A committee was appointed to draft a resolution on the death of Charles Christensen; S. A. Anderson, Louis Neubeck and W. A. Adams being appointed. Mr. Anderson, being called upon for a few remarks, stated that he appreciated the visit. Lunch and cigars were served by the Streit waiters and Joe Streit was all-around superintendent. A very enjoyable afternoon was spent and a hearty vote of thanks extended to Mr. Anderson for his kind hospitality.

On April 21st, the regular meeting will be held at the club rooms, when President Dunbar of the Rochester Club will give a stereopticon talk on tree culture and in addition Mr. Gillis will show some interesting slides on park views in and about Rochester and Buffalo. Every member and fellow florist is urgently requested to attend and to make this a record breaking meeting. The membership committee are scheming out a new initiation which will be used some time in May.

BOSTON LADIES MEET.

The ladies of the members of the Gardeners' and Florists' Club of Boston, to the number of thirty, were guests of Mrs. W. W. Edgar at her home in Waverley, Mass., on Wednesday afternoon, April 1. They were most hospitably entertained and had a glorious time getting better acquainted and talking over plans for the reception of visiting ladies at the S. A. F. convention next August. President Kennedy of the Gardeners' and Florists' Club was the only gentleman present, but his courage was good and he made a nice little speech to the assembled ladies.

SOCIETY OF AMERICAN FLORISTS

Department of Plant Registration.

Public notice is hereby given that Chas. Rathjen, 813 Center Street, Janesville, Wis., offers for registration the Antirrhinum described below. Any person objecting to the registration or to the use of the proposed name, is requested to communicate with the secretary at once, failing to receive objection to the registration, the same will be made three weeks from this date.

Raiser's Description: A seedling of unnamed parents. Growth free and vigorous, about three feet high. Stems very stiff and wiry; does not require staking. Foliage dark green and heavy, requires no disbudding. Flowers larger than Ramsburg's "Silver Pink," wide-open, and slightly waved. Color: The entire flower is pink, about the shade of "My Maryland" rose, excepting at the extreme base, which is wine color and a yellow spot at the lips. It is not affected by aphis.

Name: Janesville.

March 23, 1914.

Public notice is hereby given that as no objection has been received or filed to the registration of the Nephrolepis New York, by George Giatris, 463 Summit Street, West Hoboken, N. J., same becomes complete.

JOHN YOUNG, Secy.

March 28, 1914.

CLUB AND SOCIETY NOTES.

Treasurer Harry O. May's report to the American Rose Society at New York for the past year showed total receipts of $3834.26; disbursements, $2880.53; balance in bank, $953.73.

The schedule of the June Exhibition to be held in Newport, R. I., under the auspices of the Garden Association and the Horticultural Society, is ready for distribution. Copies can be had on application to William Gray, Secretary, Bellevue Ave., Newport, R. I.

The Horticultural Club of Boston, had as special guests at its monthly dinner at the Parker House, on the evening of April 1, G. A. Dennison of San Francisco, Cal. and William Currie of Milwaukee, Wis. The table decoration of acacia sprays, by Thomas Roland was very pretty.

The next regular meeting of the Holyoke and Northampton Florists' and Gardeners' Club will be held with George Strugnel, Bonnie Brae Greenhouses, Holyoke, Mass., on Tuesday, April 14, 7.30 P. M.

JAMES WHITING, Sec.

The second March meeting of the Connecticut Horticultural Society was held on the evening of the 27th. Alfred Cebelius exhibited a collection of roses, comprising Milady, Double Pink Killarney, Mrs. Aaron Ward, Mrs. Charles Russell, White Killarney and Richmond. President Huss exhibited two pots of Geum Mrs. Bradshaw, a hardy perennial, and the scarlet flowers are excellent for bouquets. Each exhibit was awarded a first class certificate.

Professor A. G. Gulley, of the Connecticut Agricultural College, addressed the society on Apple Trees to Plant in a Small Family Garden.

ALFRED DIXON, Sec.

At the regular meeting of the Southampton (N. Y.) Horticultural Society held March 5, it was voted to hold the Annual Exhibition of flowers, vegetables, etc., July 22 and 23. The neccessary committees were appointed, and other preliminary matters attended to launching the enterprise with every prospect of success. At the next regular meeting, March 19, several communications were received assuring co-operation and assistance. We feel we have every assurance of being able to carry to its final culmination the best show we have ever given, provided of course, that nature does her share, and we have the proper amount of sunshine and showers rightly sandwiched.

A VISIT TO WAVERLEY, MASS.

On Saturday, March 28, the Gardeners' and Florists' Club of Boston enjoyed their annual visit to the plant houses of W. W. Edgar Co., Waverley, to inspect the Easter display. Although it was a very disagreeable rainy day about fifty members were in the party. A tour through the houses showed a splendid lot of material for the great spring festival. Finest of all and excelling anything of the kind even seen here was a house of Magna Charta and American Beauty pot plants in bloom. Ramblers are also good, also hydrangeas, acacias, genistas spiraea, azaleas, lilacs, rhododendrons, and liles, the latter numbering 14,000 bulbs and uniformly good Rhododendron White Pearl was much admired. There are thousands upon thousands of geraniums in bloom all of which will be turned into money at Easter thus leaving room for Decoration Day stock and other spring material with which the long rows of cement frames are filled.

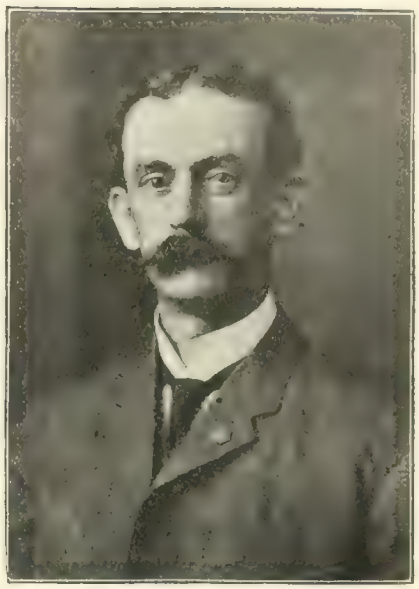
A bountiful collation was provided and congratulatory remarks were made by President Kennedy, Messrs. Elder, D. Finlayson, P. Miller and others.



THOMAS ROLAND



J. K. M. L. FARQUHAR



E. ALLAN PEIRCE

Boston S. A. F. Convention Committees.

Portraits of the chairmen of the various local committees selected by the Executive Committee of the Horticultural Interests of Boston, to carry out the program of reception and entertainment for next August appear on this page, with the exception of Mr. Nicholson, who will appear later.



PATRICK WELCH

List Of The Chairmen.

Executive—Patrick Welch.
Finance—Thomas Roland.
Exhibition—J. B. Shea.
Entertainment—E. Allan Peirce.
Publicity—J. K. M. L. Farquhar.
Sports—W. R. Nicholson.
Ladies—W. J. Kennedy.
Information—A. P. Calder.
Hotels—Patrick Welch.

The complete lists of committee members will be announced later.



W. J. KENNEDY



JAMES B. SHEA



A. P. CALDER

THE NEW YORK FLOWER SHOW

The big spring exhibition in the Grand Central Palace came to a successful close last Sunday night and it only remains for us to record the events of the closing days, congratulate managers and exhibitors, and extend hearty good wishes for many equally successful repetitions in the years to come.

It had been intended to wind-up on Saturday night but it was finally decided to hold over one day longer. We do not think the results were sufficient to afford much encouragement for a repetition of so long a period in the future. There are many valid reasons why a six-days' show would be preferable to a nine-days' show.

The judges of the American Rose Society failed to agree between the claims of the Radiance, a bright red rose, and the Excelsa, a climbing rose, for the gold medal given by Mrs. Gertrude M. Hubbard of Washington, which is awarded every five years to the raiser or originator of the best rose within that period of time. The Killarney White would have been the unanimous choice, but this rose was ineligible, as it has been shown for six years.

We omitted several things of importance in our last week's issue not the least of which was the Bloomingdale retail flower booth, arranged by C. C. Trepel and in charge of three blooming young ladies dressed in stunning gowns and dispensing smiles that were well-nigh irresistible.



Breitmeyer's Display of Carnation Philadelphia Pink
Arranged by A. T. Bunyard.

The Silver Medal for rose Killarney Brilliant was won by Robert Scott & Son. Sharon Hill, Pa., and not A. N. Pierson as incorrectly stated in our notes last week.

The handsome plant group which we used in our cover illustration last week was the work of R. M. Johnston, gardener for Mr. W. B. Thompson, Yonkers, N. Y. Mr. Johnston was also well in evidence in various plant classes. A group of Euphorbia Jacquinæflora shown by him, although they did not figure in the list of awards, were especially noteworthy because of the advanced season for such plants.



A. N. Pierson's Rose Group
Arranged by J. M. Gasser Co. and Geo. E. M. Stumpp.

The following additional prizes were awarded: Carnation display, 1,500 blooms, arranged for effect—1st to Cottage Gardens Co., for fine arrangement of Matchless, Mrs. C. W. Ward, Beacon and several unnamed varieties. 2nd Breitmeyer Floral Co., Mt. Clemens, Mich., with Philadelphia Pink. 3rd S. A. Anderson, Buffalo, for a brilliant arrangement.

The $75 silver cup given by the Hotel Manhattan for the best vase of 300 carnations was awarded to the pink and white varieties exhibited by the J. M. Gasser Company of Cleveland, Ohio. Three prizes of $25, $15 and $10, for the best vases of 150 blooms shown by private growers, were won by P. A. B. Widener of Ogontz, Penn.; Thomas Aitchison of Mamaroneck, and George Masson of Tuxedo Park.

Display of cut Roses, covering 200 square feet of space, and to contain not less than 500, nor more than 1,000 blooms. Quality of blooms, artistic arrangement, and general effect to be considered in making awards. Decorative green of any kind, including plants, permitted. 1st A. N. Pierson, Cromwell, Conn., 2nd F. R. Pierson Co., Tarrytown, N. Y.

Table Decoration, private growers—1st Adolph Lewishon, gardener J. Canning. 2nd Thomas Aitchison, Mamaroneck.

BANQUET AT HOTEL ASTOR.



The banquet in the ball room of the Hotel Astor on Thursday evening, March 26, was attended by about 250 ladies and gentlemen and was a very brilliant and enjoyable affair. President Wm. Duckham of the New York Florists' Club presided and at his right and left at the head table were R. W. Hallam, president of the International Exposition Co.; G. A. Dennison, Chief of Horticulture at Panama Pacific Exhibition; T. A. Havemeyer, F. R. Newbold, W. H. Siebrecht, Prof. A. C. Beal, Patrick O'Mara, F. R. Pierson. Most of these gentlemen made brief speeches and F. R. Pierson was the spokesman in the presentation to W. H. Siebrecht, as past president of the New York Florists' Club, of a handsome silver tea service. The tables were most beautifully decorated. After the talking, which was purposely cut short, dancing in an adjoining hall was indulged in until a late hour.

THE GARDENERS' REUNION.

This jovial annual gathering took place at Thum's Alleys, New York City on Tuesday evening, March 24. About 75 or 80 gardeners were present. Bowling began at 1 o'clock and continued until 6 o'clock, when prizes donated by the various firms, representative of the trade generally, were distributed. Adjournment was then made to the dining room where a good time was enjoyed until midnight. The speakers at the banquet were Charles H. Totty who officiated as toastmaster, William Anderson, M. C. Ebel, secretary of the N. A. G.; R. Vincent, Jr.; W. H. Duckham, president of the New York Florists' Club; Jas. Stuart, A. Herrington, J. W. Everitt and several other gentlemen well known in the trade. Some excellent scores were made in the bowling.

The reunion was not under the management of any one organization, but was conducted by a committee composed of members of the various local societies and headed by James Stuart of Mamaroneck, and was even a greater success than the two previous reunions which were held in New York. This affair is to be an annual event.

PANAMA-PACIFIC EXPOSITION.

At the request of G. A. Dennison, Chief of Horticulture, a meeting of the Advisory Committee, which he had previously appointed was held Friday, March 27, in the Grand Central Palace, New York, at the time of the Flower Show. There was in attendance John Young, Secretary of the Society of American Florists and Ornamental Horticulturists; M. C. Ebel,



F. R. Pierson's Rose Group
Arranged for Effect.

RUSH! LAST CALL. RUSH!!

Be sure to stock up on Pot Covering Material for your Easter Plants.

Water-Proof Crepe Paper. All Desirable Floral Patterns. 10 ft. rolls, guaranteed, $1.50 per doz. rolls; $11.50 per 100 rolls; prices for larger quantities on application.

Porto Rican Mats. We are the largest importers in the world of this staple article. Four distinct weave patterns; all appropriate tints to match flower colors.

Penny Crepe Pot Covers. A cheap line, useful for the lower-priced plants.

Tumbler Baskets. Forty or fifty brand new styles, in novel finish.

Telegraphic Orders Filled Promptly.

H. BAYERSDORFER & CO., 1129 Arch Street, Philadelphia, Pa.

Secretary of the National Association of Gardeners; A. F. J. Baur, Secretary of the American Carnation Society; Benj. Hammond, Secretary of the American Rose Society; Harry A. Bunyard, Secretary of the American Sweet Pea Society; Charles H. Totty, of the National Flower Show Committee and Mr. G. A. Dennison. Mr. Dennison gave the reasons for calling the meeting and requested the committee to recommend some one to be Superintendent of Floriculture. The Committee organized with Charles H. Totty as chairman and John Young, secretary. Mr. Totty was elected chairman to serve until the close of the Exposition. The name of William Plumb of New York was recommended as the unanimous choice of the committee and William Plumb will be superintendent of Floriculture to serve until the close of the Exposition.

JOHN YOUNG, Secy.

BOSTON NOTES.

James F. M. Farquhar returned Monday, March 30, from his stay in Porto Rico. His many friends will be pleased to know that his health is greatly improved.

N. F. McCarthy & Co. began their series of spring plant auction sales on Tuesday, March 31. The spacious salesroom was well packed with hardy shrubbery, conifers, buxus and roots for spring planting and a lively crowd was on hand to respond when the versatile auctioneer made his opening speech. The sales will continue every Tuesday and Friday until June.

The ground plan and lay-out of show beds in the outdoor garden which is to be a prominent feature of the S. A. F. convention next August, as prepared by the Park and Recreation Department of the City of Boston, is now prepared and will be distributed to the various trade journals so that it may appear simultaneously in all sections of the country next week. Full particulars as to space charges, etc., will be given at same time.

The nursery shipping season is commencing fully two weeks late this spring, we are informed by the Palisades Nurseries of Sparkill, N. Y. A number of substantial orders from their large advertisement in last week's HORTICULTURE are also acknowledged. Things are looking very promising for the coming season, and a record business is looked for, notwithstanding the late start.

THOMAS F. GALVIN BOSTON'S NEW PARK COMMISSIONER.

Mayor Curley has added one more practical florist to the Park and Recreation Commission of the City of Boston. Mr. Galvin is a representative business man and the horticultural interests of his city will not suffer in his care. We cannot do better than quote from the Boston Transcript which speaks as follows in approval of



THOMAS F. GALVIN.

Mr. Galvin's selection for this important office:

"The appointment of Thomas F. Galvin to be a member of the Park Commission certainly carries no shock to the public. Mr. Galvin has not figured largely in the public service, doubtless for the reason that he has had a large and engrossing private business whose interests he has found more to his taste. He is one of Boston's most prominent florists and there are few men whose names are better known in the city. His training and experience have been of a kind that would seem to qualify him for the position he has been invited to take. He has been a practical student of nature and its possibilities since his earliest youth. His father was a valued and highly respected public servant, filling several positions with fidelity and efficiency, among them one similar to that which his son is now called to occupy. It cannot be said that Mr. Galvin receives this recognition because he "needs the job," which if he accepts, will take considerable of his time and attention. But he has always been interested in Boston's welfare and particularly along the lines where his new duties will take him. It is reasonable to hope and expect that he will prove a valuable addition to the administrative forces of the city."

NEWARK, N. J., NOTES.

Business has been entirely satisfactory during the past week, with stocks in good shape and cut flowers in all the lines. The trade is looking forward to an excellent Easter business but this, of course, does not develop until immediately before the holiday itself.

F. P. Wolfinger reports that business has kept up wonderfully well, and he also expects a very large amount of business at Easter time. F. M. York is about to offer his business for sale. His store is in a very good location, right off the main street, with a nice large window.

H. C. Strobell & Co., of 783 Broad street, is going to move about May 1 to a much nicer location and a better store at 895 and 897 Broad street, after having been at the present store for the past 20 years.

Geo. Penek has opened another store at 637 Broad street and reports that it is the best paying store that he owns, he having at the present time five stores under his control.

Chas. C. Weatheridge, who is the oldest florist on Broad street, having been in the florist business for a good many years, has at the rear of his store a small greenhouse well stocked with Easter plants.

Harry J. Stein, of Hahne & Co., and J. H. Harvey both report business as unexpectedly good.

J. M. W.

NEWS NOTES.

Glenwood Springs, Col.—Mrs. M. E. Cristy has bought the Glenwood Greenhouses.

Allentown, Pa.—Clayton Weaver, of Mt. Gilead, O., has purchased the greenhouse business of D. B. Kroninger, and will hereafter conduct the business under the name of the Emaus Floral Co.

PREPARE FOR EASTER

The blizzards and the extreme cold weather will make Easter plants very scarce, therefore, don't delay but send your orders in now.

LOOK WHAT WE CAN OFFER YOU—CHEAP AND GOOD

NEPHROLEPIS OR FERNS, Scotti, 5, 5½, 6 and 7-in. pots, 35c, 40c, 50c, 75c to $1.00. **Harrisii,** 7-in., 75c to $1.00. **Giatrasii,** 5½-in., 35c to 40c. **Smithii,** 6-in. pans, 35c, 40c, 50c.

FICUS Elastica (Rubber Plant), 4-in., 5-in., 5½-in., 6-in., 7-in., 25c, 35c, 40c, 50c, 75c.

ARECA lutescens robusta, 4-in., made up of 3 plants, 25c; 5-in., 35c.

KENTIA Forsteriana and Belmoreana, 5¼-in. pots, made up of 3 plants, 40c, 50c; single, 5½-in.; **Forsteriana** or **Belmoreana,** 40c, 50c, 60c, 75c; **Forsteriana,** 12-in. tubs, 65 to 75 in. high, $4.00 to $5.00.

COCOS Weddelliana. 4-in., 25c; made up, 30c; 3-in., 15c.

EASTER LILIES OUR SPECIALTY



We have the genuine **EASTER LILY, Lilium multiflorum.** We have the genuine stock, true to name, raised from selected bulbs, furnished by our grower in Japan; 9 to 12-in. bulbs; now in fine condition for Easter sale; 5½ to 6-in. pots, having from 5 to 10 buds to a plant; 10c per bud; plants having less than 5 buds, 12c per bud. **Order Now.** Buds now showing; plants of medium height, just right for Easter trade.

CYRTOMIUM Falcatum (the new brushed Holly Fern). 5½-in., 25c to 35c.

PRIMULA Obconica. In bloom, 4-in., 15c; 5½-in., $3.00 per doz. **PRIMULA Chinensis,** 5½-in., $3.00 per doz.

CINERARIA HYBRIDA. Our best well-known strain, same showing color now, right for Easter; 5-in., 5½-in., 6-in., 25c, 30c, 40c, 50c, 75c to $1.00.

ENGLISH IVY. 3-in., 7c; 4-in., 10c.

FERNS for dishes, Wilsoni only, 2½-in., 4c; 3-in., 6c.

PTERIS Wilsoni. In 6-in. pans, 25c.

HYACINTHS are scarce this Easter, but we put in last fall an immense stock of our own importation, which will make large spikes and cannot be compared with the cheap stuff that is now floating on the market. **Gertrude,** best pink; **La Grandesse,** best white; **King of the Blues,** best dark blue; **Grand Maitre,** best lavender blue. 4-in. pots, staked up, $12.00 for 100 pots. In bloom for Easter week.

TOURNESOL TULIPS, best double red and yellow variegated; **Murillo,** double rose; **Imperator Rubrum,** bright red double; **Couronne d'Or,** double yellow, new, three bulbs planted in a 4-in. pot, $15.00 per 100 pots, $8.00 a doz., in bloom one week before Easter.

DAFFODILS, Von Sion. Best double yellow **NARCISSUS** in existence, three double-nosed bulbs, planted in 5½ to 6-in. pot, $3.00 per doz. pots, out of cold frame, will bloom one to two weeks before Easter.

While we pay the highest price for our Bulbs of Hyacinths, Tulips, etc., from Holland growers, you must bear in mind that we can sell them no cheaper than we do, and we assure you that there is no profit in it for us for the fine stock we sell you.

ASPARAGUS SPRENGERI, 4-in., 10c; 2½-in., 4c.

ASPARAGUS PLUMOSUS NANUS, 3-in., 7c; 2½-in., 4c; 5½-in., 25c. to 35c.

Our specialty, the world wide known pure white **MOONVINE, Ipomoea Noctiflora,** is now ready, 2½-in. pots, $5.00 per 100.

ARAUCARIA Excelsa. 6-in. pots, 4, 5, 6, 7 tiers, 75c, $1.00, $1.25, $1.50.

RHODODENDRONS. 10-in. pans, full of buds, $1.25 to $1.50.

SPIRAEA GLADSTONE in 6 and 7-in. pots, in bud, 30c, 40c, 50c and 75c, right for Easter.

HYDRANGEA OTAKSA, full of foliage, all have buds, just right for Easter sales, 5½, 6 and 7-in. pots, 25c, 30c, 40c, 50c, 75c, $1.00, $1.25 to $1.50. **FRENCH HYDRANGEAS, Mme. Mouillere,** best white, and **Gen. de Vibraye,** bright rose, 30c, 40c and 50c.

BEGONIA GRACILIS LUMINOSA, deep red, in bloom and bud, 5½-in. pots, $3.00 per doz.

BEGONIA ARGENTEA COMPACTA, 4-in. pots, 15c.

NEPHROLEPIS CORDATA COMPACTA, 4-in., 25c.

WE ARE

Headquarters for Azaleas

FOR EASTER BLOOMING



EASTER GREETING!

All the go. The plants of the century. A rival of all Easter plants. For azaleas, go direct to the Azalea belt of Godfrey Aschmann.

Order now. 5 houses full, 10,000 of the choicest plants on hand, ready for immediate shipment. We are the only importers of **AZALEAS,** of which we have made a specialty for the last 25 years. We have the well-known, best double pink **Mme. Van der Cruyssen,** 5½-in., 6-in., 7-in., 8-in. pots, 60c, 75c, $1.00, $1.25, $1.50 to $2.00.

Vervaeneana. Best double rose variegated, large flowering, 5½-in., 6-in., 7-in. pots, 75c, $1.00, $1.25, $1.50 to $2.00; **Niobe** and **Deutsche Perle,** best double white; **Princess of India,** double variegated; **De Schryveriana,** double variegated; **Apollo,** best red; and other well-known varieties, 75c, $1.00, $1.25, $1.50 to $2.00. We have about 100 assorted at 50c, 60c, 75c, $1.00, $1.25 to $1.50.

All goods must travel at purchaser's risk only. No references investigated while the big rush is going on. Thousands of boxes have to be packed in a remarkably short time and only cash will be accepted. Please state if you want stock shipped in or out of pots.

GODFREY ASCHMANN, 1012 West Ontario Street, Philadelphia, Pa.

WHOLESALE GROWER, IMPORTER AND SHIPPER OF POT PLANTS

CATALOGUES RECEIVED.

Frederic J. Rea, Norwood, Mass.—Catalogue of Perennials, Roses, Evergreens, etc.

Nungesser-Dickinson Seed Co., Hoboken, N. J.—Wholesale Price List of Grass and Clover Seeds.

C. G. Curtis, Callicoon, N. Y.—Catalogue of Native Plants in Carload Lots. Also Wholesale Price List.

A. Keilholz, Quedlinburg, Germany—High-grade Vegetable Seeds. Otto Heinecken, New York, Sole American Representative.

Kramer Bros.' Foundry Co., Dayton, O.—Illustrated Catalogue of Iron Vases, Settees, Chairs, Window Boxes, etc. An elegant publication, 112 pages.

Cayeux & Le Clerc, Paris, France—Catalogue of flower and Vegetable Seeds. Also Cereals, Cannas, Begonia tubers, etc.

Wagner Park Nursery Co., Sidney, O.—Special Bargain Catalogue of Hardy Plants for Parcel Post Delivery. Also general Spring Catalogue handsomely illustrated.

J. Heins' Sons, Halstenbek near Hamburg, Germany—Wholesale Nursery Catalogue, of Evergreens, Deciduous Trees, Fruit Stocks, Briars, etc. Otto Heinecken, New York, American agent.

For Prompt Shipment

Lilium Giganteum

	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

A. Henderson & Co.

369 RIVER ST., CHICAGO.

CYCLAMEN

Best strain in existence.

4 inch	$35.00
5 inch	50.00
6 inch	75.00

THOMAS ROLAND, Nah

FOREST PRODUCTS EXPOSITION.

An important undertaking and one entirely new in connection with the wood industry of America is the establishing of an annual show in the Grand Central Palace, New York, called the Forest Products Exposition. It will be held from May 21 to May 30, inclusive, and it will be an enlargement of the pioneer exposition on these lines in the Chicago Coliseum, from April 30 to May 9.

A special appropriation of $10,000 has been favorably acted on by Congress and the Senate for the exhibit of forest service, which will be available for the two shows. The scope of the New York Exposition will be educational, yet entertaining, and on somewhat different ideas from the Chicago show. The great forests which are being guarded by the Government Forest Service are nearer by many miles to Chicago than to New York, which is the reason that the Grand Central Palace exposition has been framed on more popular lines.

The decorative scheme at the Grand Central Palace will be appropriate and extensive, including growing boxwood hedges as dividing rails on the aisles; natural and artificial branches, leaves, bark and trees, to carry out the forest atmosphere, while the National Lumber Manufacturers' Association and many affiliated organizations will have typical and picturesque displays.

Forest preservation is the lesson to be taught by the show, and it will be made enduring by hundreds of exhibits to reveal the value of the timbered stretches in natural irrigation, especially in serving as the sources, or fountain heads, of streams and rivers, and of the vast industrial uses of wood and wood products, especially the ground and chemical fiber products.

The Northern Hemlock and Hardwood Manufacturers' Association, the Lumbermen's Association of New York, the Michigan Hardwood Manufacturers Association, the Merchants and Manufacturers Exchange of New York and other organizations representing an investment of millions of dollars will have exhibits. The Redwood Mill Owners Association of California in its exhibit will include a bungalow of two rooms, the exterior of redwood boards from a house and barn built at Fortuna, Cal., in 1853, while the interior will be trimmed in finished redwood, one detail being a redwood table seventy-two inches in length, made from a single board. The Northern Hemlock and Hardwood Manufacturers Association and the Michigan Hardwood Manufacturers Association have combined in the exhibit of a bungalow that is unique in the rarity and variety of the woods used in its construction. The exterior will be bass wood, with Northern white cedar shingles; the living room will be trimmed in elm, with red birch flooring; the dining-room in birch.

Obituary

William Dawkins.

William Dawkins, well known as an expert gardener, died on Sunday, Mar. 29, of general debility, at the age of 76 years. Mr. Dawkins was born in Tottenham, London, England. He came to Canada with the 30th Foot Infantry at the time of the Trent affair. After leaving the army he worked in Canada in a hardware house. Came to Philadelphia in 1870 and started as a florist at 40th and Walnut streets, where his old greenhouse still stands. From there to England and back to Boston, where he worked first for Anthony McLaren and after a short time in business for himself went to the Bussey Institution under Jackson Dawson, afterwards becoming Mr. Dawson's assistant in the Arnold Arboretum for about 21 or 22 years. After another trip to England and back, he returned again to take charge of the Van Brunt estate at Readville, Mass.,



WILLIAM DAWKINS.

where he remained some fifteen years. His health failing, he went to Vancouver for a few months, returning discouraged to Boston last October. Mr. Dawkins was a very close friend of Jackson Dawson, who has nothing but appreciative words for his loyalty, industry and skill.

J. H. Jones.

J. H. Jones a well-known figure in the farm implement business of Philadelphia, was accidentally killed on Market St., near 15th on the 28th of March. Mr. Jones was in his 89th year and was to a certain extent known in the seed business—as he ran a line of farm seeds with his main stock of implements and machinery. For many years the business was in his own name. It has been run for a number of years as the Farmers' Supply Co.

Charles Christensen.

We learn with regret of the sudden death of Charles Christensen, the well-known grower of Eggerstsville, N. Y. Mr. Christensen was taken to the hospital on Monday, March 23 and passed away on Saturday afternoon. The Buffalo Florists' Club and local florists generally attended the funeral on Monday, March 30, at the home of his son in Eggerstsville.

Mrs. Wallace Payne.

Mrs. Wallace Payne, wife of the well known Girardville, Pa., florist, died on Saturday evening following childbirth. She was 32 years of age and a daughter of Mr. and Mrs. Thomas Taylor, of Girardville. Her husband and several children survive her.

BRITISH HORTICULTURE.

At the annual show of bulb blooms, held by the Royal Horticultural Society in London, on March 10th, the gold medal of the General Bulb Growers' Association, Haarlem, was awarded to the Duke of Bedford. R. and G. Cuthbert, Southgate, received the gold medal of the Association in the trade section, for an excellent display of hyacinths. The varieties included: Jacques, City of Haarlem, Lord Derby, Queen of the Blues, Lord Balfour, etc.

Bacterial Treatment of Peat.

Some further details of experiments made in the bacterial treatment of peat was recently given by Professor Bottomley at a meeting of the Royal Society of Arts, in London. Recent results indicated, the Professor stated, the probability of the presence of another factor, besides that due to nitrogen fixation and the manurial effect. In an experiment at Kew Gardens with richardias, potted up in heavily manured soil, Mr. Watson found that a top dressing of about half an ounce of peat to a 10-inch pot doubled the weight of the treated plant in a month's time. Dr. Rosenheim, of King's College, had obtained equally striking results with Primula malacoides by treating twice only with the extract of a hundred and fiftieth of an ounce of bacterised peat. Such effects could not be due to the small amount of direct food material present in the peat or its extract added to the soil, and it was realized that in the prepared peat there was something which had the effect of stimulating and promoting growth in an extraordinary manner. Numerous experiments now in progress indicated that this something was probably similar in nature, as Dr. Rosenheim suggested, to the accessory food bodies recently found to play such an important part in animal growth and nutrition. There might be something of this sort in the peat enabling the plant to grow actively and to assimilate the food present. This seemed to be so, because of the way in which the peat stimulated the growth of the plant even in heavily manured soil.

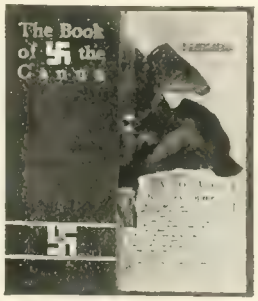
W. H. ADSETT.

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

Round Up Your Canna Needs

Order your Swastika kind now —will ship when you say

	Prices 10	100	1000
PINK			
Martha Washington, 3 ft.	$0.35	$2.50	$20.00
Luray, 4 ft.	.35	2.50	20.00
Mrs. A. F. Conard, 4 ft.	2.50	12.00	100.00
Venus, 4 ft.	.50	4.00	25.00
Wabash, 4 ft. The bronze leaved Rosea Gigantea	3.00	20.00	150.00
Louise, 5 ft.	.30	2.00	15.00
WHITE			
Alsace, 4 ft.	.30	2.00	15.00
Mont Blanc, Imp. 3½ ft., Almost pure white	.65	4.00	30.00
Yellow and Spotted and Orange Yellow.			
Buttercup, 3 ft.	.75	6.00	50.00
Director Holtz, 4ft.	.40	3.00	25.00
Dr. Nansen, 2½ ft.	.35	2.50	20.00
KateF.Deemer, 4ft.	4.00	25.00	....
Brilliant, 4 ft.	.45	3.50	30.00
ORANGE			
California, 4 ft.	.45	3.50	30.00
Eastern Beauty, 4ft.	.35	2.50	20.00
Indiana, 6 ft.	.40	3.00	25.00
Wyoming, 7 ft. Purple foliage	.35	2.50	20.00
VARIEGATED			
Niagara, 3 ft.	.45	3.50	30.00
Halley's Comet, 3½ ft.	1.50	8.00	75.00
Gladioflora, 3½ ft.	1.50	8.00	75.00
Maid of Orleans, 4½ ft.	....	40.00	....
RED			
Philadelphia, 3 ft.	.35	2.50	20.00
Black Warrior, 3½ ft.	.30	2.00	15.00
Beacon, 4 to 4½ ft.	.75	6.00	50.00
Brandywine, 3½ ft. Bronze foliage	.40	3.00	25.00
Chautauqua, 4 ft. Bronze foliage.	.40	3.00	25.00
Duke of Marlboro, 4 ft.	.35	2.50	20.00
George Washington, 3½ ft.	.35	2.50	20.00
King Humbert, 4 ft. Bronze foliage	.65	4.00	35.00
Patrie, 4 ft.	.35	2.50	20.00
Pillar of Fire. 6 to 7 ft.	.35	2.50	20.00
Wm. Saunders, 4 ft. Bronze foliage	.65	5.00	40.00
Conowingo, 6 ft. Bronze foliage.	.60	4.50	40.00
Giant Crimson, 4½ ft.	.40	3.00	25.00
Meteor (Wintzer's), 5 ft.	3.00	20.00	175.00
Uncle Sam, 6 to 7ft.	.45	3.50	30.00



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Prosperity in a plant establishment is indicated in two ways—quantity and quality of stock and sales. A. M. Davenport of Watertown, Mass., can therefore be safely pronounced prosperous, for he has both quantity and quality, yet has nothing more to offer for Easter, being all sold out already. Lilies, Ramblers, Azaleas—everything bearing a flower—are ordered up to the limit. Preparations are being made for a very busy May, June and July. 100,000 Asplenium Nidus-Avis in all small sizes and some 2,000 seed pans with counless young fern spores germinating are a feature of this place which makes the visitor open his eyes very wide. Among bedding plants here Begonia Chatelaine stands out temptingly.

VISITORS' REGISTER.

New York—Robert Pyle, West Grove, Pa.; M. Samtman, Chestnut Hill, Pa.; Vernon T. Sherwood, Charlestown, N. H.; Allan Jenkins, Lenox, Mass.; Thomas Roland, Nahant, Mass.; Frank Edgar, Waverley, Mass.; R. E. Loeben, Gloversville, N. Y.; F. Henkes, Watervliet, N. Y.; M. A. Patten, Tewksbury, Mass.; George E. Fisher, New London, Conn.; Mrs. Frank Floto, Waterbury, Conn.; Oliver Lines, John White, Pittsfield, Mass.; Henry Penn, Peter Miller, H. R. Comley, Boston, Mass.; W. F. McCord, Tarrytown, N. Y.; C. B. Ogston, Rochester, N. Y.; A. A. Pembroke, Beverly, Mass.; David Fairchild, Washington, D. C.; Mr. and Mrs. R. Vincent, Jr., Whitemarsh, Md.; John Wolff, Savannah, Ga.; Prof. E. A. White, Prof. A. C. Beal, Ithaca, N. Y.; Wm. Bate, Cleveland, O.; Sidney Bayersdorfer, Geo. E. Fancourt, Louis Burk, I. Rosnosky, George Burton, Philadelphia; B. H. Farr, Wissinoming, Pa.; J. R. Grullemanns, Jr., Lisse, Holland; R. E. Jones, Richmond, Ind.; Wm. Kleinheinz, Ogontz, Pa.; A. H. Lange, Worcester, Mass.; Fred Lautenschlager, Chicago, Ill.; F. A. Danker, Albany, N. Y. All the foregoing in attendance at the Flower Show in addition to the list of names we published last week.

Boston—T. J. Gibson, Newport, R. I.; G. A. Dennison, San Francisco, Cal.; L. W. C. Tuthill, New York; J. J. Karins, representing, H. A. Dreer Phila.; L. J. Reuter, Westerly, R. I.; Herman C. Stache, Manchester, N. H.; William Currie, Milwaukee, Wis.; A. F. Faulkner, New York, N. Y.

Philadelphia—John Wolff, Savannah, Ga.; D. C. Horgan, Macon, Ga.; S. McClements, Pittsburgh, Pa.; A. F. J. Baur, Indianapolis, Ind.; Mr. Conrad, mgr. Dorrance Greenhouses, Wilkesbarre, Pa.; M. Henry Lynch, and Edward Parker of Dingee & Conard Co., West Grove, Pa.

Chicago—J. J. Hess, Omaha, Neb.; Miss Drake, Kenosha, Wis.; R. P. Atwell, Fort Dodge, Ia.; E. H. Cushman, Sylvania, O.; J. M. Hoffman, La Porte, Ind.; Jas. Aldons, Jr., Iowa City, Ia.; J. Dilloff representing Schloss Bros., N. Y.

Nurseries of the National Farm School



The accompanying pictures give a glimpse of the well-equipped nurseries of the National Farm School, located at Doylestown, Pa.—an institution devoted to the instruction of Jewish boys in agriculture and horticulture, and which has been doing splendid work for the past ten or fifteen years under the able guidance of Professor John H. Washburn. The horticultural department is looked after by Walter F. Fancourt, a practical gardener, florist and nurseryman of wide experience and training—scientifically, commercially and every other way.



STATISTICS OF ORNAMENTAL PLANTS REQUESTED.

In the study of ornamental plants being conducted by the Department of Agriculture, as much information as possible is desired as to the actual behavior of plants in different localities. With this in view, a form for the recording of the desired information has been prepared, which will be supplied to anyone signifying a willingness to co-operate in the work. The information asked for covers the time of opening and dropping of leaves and flowers and coloring and dropping of the fruit when there are any.

Those willing to report information of this character will please write to F. L. Mulford, Landscape Gardener, Department of Agriculture, Washington, D. C.

We hope Mr. Mulford will be favored with the most helpful co-operation by all those of our readers who are in a position to assist in this work.

The blanks, which Mr. Mulford will be pleased to supply to all who apply, are as follows:

SPECIES

VARIETY

Place of observation

LEAVES. Date of leaf buds bursting ; fully opening ; beginning to color ; beginning to fall ; all fallen .

FLOWERS.—Dates of first bloom ; full bloom ; blossoms fallen .

FRUITS.—Dates of beginning to color , fully colored ; beginning to drop ; finished dropping

Last spring frost ; first fall frost .

Color of flowers ; color of fruit .

SOIL.—Fine, coarse, light, heavy, sand, loam, clay; very, moderately dry, moist, wet, waterlogged, marshy, stream, lake, at an elevation of about feet above sea level, protected by , exposed to .

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When Writing to Advertisers Please Mention Horticulture

PUBLICATIONS RECEIVED.

After a lapse of fourteen years since the publication of the first edition of Bailey's Cyclopedia of American Horticulture we have the pleasure of extending a hearty welcome to The Standard Cyclopedia of Horticulture, the first volume of which has just been published by The MacMillan Company, New York. This is not merely a revised edition of the old Cyclopedia but is really a new work from start to finish, with much new matter both in the way of text and illustrations, while even the old matter that has been retained has been rewritten. It has, of course, been reset throughout. The indefatiguable author has newly elaborated many subjects and continuous effort has been made to secure information from authentic first sources. The present issue, although founded on the former compilation, is thus essentially a new work, with a greatly extended scope and enlarged practical usefulness, and at the same time does not overburden its pages with lists or descriptions of plants with no interest or value except to the botanist or historian. Thus it is unique as a book of reference and study and should have a place on the book-shelf of every gardener and florist, for it is very live literature for anyone engaged in any department of the horticultural field.

The identification of species and the cultivation of plants are the two fundamental bases of the text and in working up from these the best authorities have been enlisted and the assistance of the most skillful exponents of the art has been secured. That it is not possible for one to grow plants successfully "by book" has evidently been kept in mind by the author and the cultural details as given are not so much explicit directions as they are elucidations of standard practice.

This valuable work comes in response to the marked growth of outdoor horticulture which is now making such great progress in this country and in recognition of the resultant widespread need for an intrinsic and comprehensive garden literature. It fills the bill to a degree hitherto unapproached by any publication or any collection of publications that could conveniently be assembled. The glasshouse industries, such as florists' plant and flower growing, vegetable forcing for market, etc., are not neglected, and the most proficient operators in these special lines have been enlisted to present the facts in these rapidly growing avocations.

As above mentioned, the first volume of the six which will complete the set has only come out. The Synopsis of the Vegetable Kingdom by William Miller, with which the first volume of the old issue began, gives place to A Synopsis of the Plant Kingdom by Karl M. Wiegand. The original form and method are still retained but the key has been extensively revised and adapted to the present work. The text matter which follows takes in only the initial letters A and B, yet comprises in these two letters 602 pages as against 197 in the original. Important genera are also elaborated far beyond their limits in the old Cyclopedia. For instance, Acacia occupies 12 pages in this work, whereas in the older one it occupied 5; Acer fills 10 pages, against 5; Begonia 15, against 10; Agave 9, against 4½; Apple 21, against 2½ in the old Cyclopedia.

The publisher is Macmillan Company, New York. The price is $6.00 a volume or $36.00 for the set. HORTICULTURE can supply the volumes as they appear, at publishers' price.

The Carnation Year Book for 1914. Published by the Perpetual Flowering Carnation Society, London, England. This annual is the official organ of the Society and is edited by J. S. Brunton, the president. The lengthening list of members shows that this organization is rapidly growing in numbers and influence. The annual report shows a total membership of 434. Besides the usual contents of reports, papers, etc., there are many illustrations of different varieties of carnations, etc., and a complete list of carnations registered by the society since its organization.

That Farm, by Harrison Whittingham. A story of how a successful city merchant goes back to the land. A good practical introduction to the fundamental principles of successful farming and one which will save the ambitious amateur farmer many disheartening experiences if carefully perused. The author undertakes to tell the workers of the world how they may find a rich harvest of life's good things in agriculture. Illustrated. Price $1.20 net. Published by Doubleday, Page & Co., Garden City, N. Y.

My Garden Doctor, by Frances Duncan. A nice little story for anyone needing the toning up effects of fresh air and outdoor interest. Nature is presented in her most wholesome guise as the Garden Doctor. There are some trite sayings, such as "Gardening consists not so much in a wild frenzy of industry in the spring as in doing odd bits of work at the proper time." Published by Doubleday Page & Co., Garden City, N. Y. Price $1.00 net.

Tenth Annual Report of the State Forester of Massachusetts. F. W. Rane—An interesting public document dealing with the activities of the department throughout the year 1913, and more especially with the problems of controlling the gypsy and brown tail moths, reforestation and fire protection. There are a number of interesting forest views, diagrams, etc.

CATALOGUES RECEIVED.

Warnaar & Co., Sassenheim, Holland.—Wholesale Price List of Dahlias.

I. N. Kramer & Son, Cedar Rapids, Ia.—Illustrated Seed Catalogue for 1914.

Lord & Burnham Co., New York—"Garden Boosters" Price List of frames all sizes.

John H. Umpleby, Lake View, N. Y.—Price List of Derby Gardens' Gladioli, 1914.

F. H. De Witt, Wooster, Ohio—Illustrated Price List of Pelargoniums and Geraniums.

Fraser Nursery Co., Huntsville, Ala.—Surplus List No. 3, of stock on hand March 16, 1914.

J. P. Campbell, Jacksonville, Fla.—"Modern Irrigation." A descriptive pamphlet and price list of the Campbell Automatic Irrigation Sprinkler.

Wm. H. Moon Co., Morrisville, Pa.—1914 Catalogue of Hardy Trees and Plants for Every Place and Purpose. A work of art beautifully illustrated.

F. & F. Nurseries, Springfield, N. J.—Trade List for spring, 1914. For Nurserymen and Dealers only. An extensive list of trees, shrubs and hardy herbaceous plants.

Eastern Nurseries, Jamaica Plain, Mass.—Wholesale Trade List. Distinctive as always for the large number of the newer improved shrubs and hardy herbaceous plants listed.

Peter Henderson & Co., New York—Everything for the Lawn and Golf Course. A special Catalogue, distinctive in appearance and very complete in every feature. Handsome cover.

Consumers' Fertilizer Co., New York—Pamphlet on Farm Fertilizers, Odorless Plant Food and Special Formulas for Special Crops. A very instructive and valuable publication.

Quaker City Machine Co., Richmond, Ind.—Catalogue of Evans Improved Challenge Roller-Bearing Ventilating Apparatus, illustrated and full description of this well-known specialty.

Oregon Nursery Company, Orenco, Oregon—Descriptive Catalogue of Fruit and Ornamental Trees, Shrubs, Vines, Roses, Small Fruits, etc. Contains a number of handsome colored apple portraits.

Conard & Jones Co., West Grove, Pa.—"The Book of the Swastika Canna."—A publication for the trade. Very useful for anyone interested in modern Canna development. Wholesale prices quoted.

Peter Henderson & Co., New York City.— Henderson's Implement Catalogue.—A handsome publication of 66 pages, covers in bright colors, profusely illustrated and fully covering its special field.

S. A. Anderson, Buffalo, N. Y.—"Flowers." A retail florists' hand-book, illustrated with handsome engravings of floral wreaths and designs for all purposes for which flowers are used. A model album for the purpose.

General Swedish Seed Co., Svalof, Sweden — Illustrated Descriptive List of Swedish Agricultural Seed Specialties—Crown Oats, Golden Barley, etc. Loechner & Co., 11 Warren St., New York, General Agents for U. S. A.

Conard & Jones Co., West Grove, Pa.—New Floral Guide, 1914. As heretofore this book is a bright and inspiring publication for the amateur. Largely devoted to roses, which are illustrated in profusion, but fully covering the list of desirable garden subjects.

Palisades Nurseries, Sparkill, N. Y.—Palisades Popular Perennials. Also Wholesale Price List of Hardy Perennials for Spring and Fall, 1914. These lists are very comprehensive, covering a vast number of the finest garden border subjects. The retail list is handsomely illustrated with original half-tone pictures and is a very enticing awakener to the beauty of these hardy herbaceous plants. The wholesale list is a business document that the trade will appreciate.

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The New French Hydrangeas

For Memorial Day

We can still furnish plants, now stored in cold frames and which, if given geranium house conditions, will flower fine for Decoration Day. At the prices we quote you will find them a profitable investment. We particularly recommend the 6-inch and 7-inch pot stock.



AVALANCHE. A splendid, large, white with a well established reputation; an easy variety to force.

BOTANISTE PELTEREAU. Enormous flowers of a pretty mauve rose.

BOUQUET ROSE. Large trusses of rosy amber, turning to bright pink; a favorite with all growers.

DENTELLE. Entirely distinct, deeply fringed flower of a creamy-white color; it is not suited for forcing; but for Decoration Day and later flowering it is very valuable.

E. G. HILL. This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size; color a most pleasing shade of pink which does not fade; growth vigorous, foliage of a pea-green color large and attractive. It is one of the easiest to force, coming into flower as early as Mme. Emile Mouillere.

FRAICHEUR. Very large, regularly shaped flowers, white, delicately suffused with rose; very free flowering.

GENERAL DE VIBRAYE. A favorite wherever seen; very large heads of bright rose-colored flowers; a splendid early forcing variety.

LA LORRAINE. Very large flowers, pale rose, turning to bright pink; has become a general favorite.

MME. A. RIVERAIN. Superb bright rose color; very vigorous and floriferous.

MME. E. MOUILLERE. Probably the most popular white variety on the market to day; an early, easy variety to force.

MME. MAURICE HAMAR. A delicate flesh-rose color. A vigorous grower, the individual flowers as well as the trusses being very large. One of the easist to force early.

MME. RAYMOND. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose.

MLLE. AGNES BARILLET. A splendid white; flowers large and very freely produced.

MLLE. DE TREMAULT. As the result of our own trials, we are convinced that this variety is the best very large-flowered white yet introduced. As free flowering as any, of splendid, erect habit, producing flower heads as large as the old popular Otaksa.

MLLE. RENEE GAILLARD. Very large panicles of milky white, irregularly dentated flowers.

MOUSSELINE. A beautiful mauve rose, with cream-colored center; the flower heads are large and held erect; a fine acquisition.

MONT ROSE. Immense panicles of clear flesh rose, entirely distinct. One of the best very early-flowering varieties.

MONS. G. RENAULT. Very large flowers of a bright rose, with carmine reflex; very free and easily forced.

ORNEMENT. Large, pretty mauve-pink flowers; very free flowering.

RADIANT. At the International Show in New York last spring, Radiant was the one variety which attracted much attention. It is an easy variety to force, of a splendid, rich, live rose carmine, entirely distinct from all others.

RONSARD. Flowers and trusses very large, of a beautiful rose tint.

SOUVENIR DE MME. E. CHAUTARD. One of the very best, of splendid, erect habit, very robust, medium-sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type.

SENATEUR HENRI DAVID. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer.

Price of New French Hydrangeas

	3-in. pots		5-in. pots		6-in. pots		7-in. pots
	Doz.	100	Doz.	100	Doz.	100	Each
Avalanche	....	....	$2.50	$20.00	$4.00	$30.00	$0.50
Botaniste Peltereau	....	....	2.50	20.00	4.00	30.00	.50
Bouquet Rose	$1.00	$7.00	2.50	20.00	4.00	30.00	...
Dentelle	....	....	2.50	20.00	4.00	30.00	.50
E. G. Hill	2.50	20.00	4.00	30.00	....	....	...
Fraicheur	....	....	2.50	20.00	4.00	30.00	.50
General de Vibraye	1.25	8.00	2.50	20.00	....	....	...
La Lorraine	1.25	8.00	2.50	20.00	....	....	.50
Mme. A. Riverain	....	....	2.50	20.00	4.00	30.00	...
Mme. E. Mouillere	1.25	8.00	2.50	20.00	4.00	30.00	...
Mme. Maurice Hamar	1.00	7.00	2.50	20.00	4.00	30.00	...
Mme. Raymond	....	....	2.50	20.00	4.00	30.00	.50

	3-in. pots		5-in. pots		6-in. pots		7-in. pots
	Doz.	100	Doz.	100	Doz.	100	Each
Mlle. Agnes Barillet	....	....	$2.50	$20.00	$4.00	$30.00	$0.50
Mlle. de Tremault	....	....	2.50	20.00	4.00	30.00	.50
Mlle. Renee Gaillard	$1.00	$7.00	2.50	20.00	4.00	30.00	.50
Mons. G. Renault	1.25	8.00	2.50	20.00	....	....	.50
Mont Rose	1.00	7.00	2.50	20.00	4.00	30.00	.50
Mousseline	1.00	7.00	2.50	20.00	....	....	...
Ornement	....	....	2.50	20.00	....	....	.50
Radiant	2.50	20.00	....	....	....	....	...
Ronsard	....	....	2.50	20.00	4.00	30.00	.50
Senateur Henri David	1.00	7.00	2.50	20.00	4.00	30.00	.50
Souv. de Mme. E. Chautard	1.00	7.00	2.50	20.00	4.00	30.00	.50

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The Next Canners' Convention.

Editor HORTICULTURE:

My Dear Sir: — In a recent issue of your journal I notice an article under the caption, "Next Canners Convention." It is stated therein that the question of which shall be the next convention city has gone to a referendum of the members of the three associations. I regret to observe that you argue against the selection of San Francisco, on the ground that the Convention date in 1915 falls so early that those attending the Convention will not be able to combine business with pleasure and enjoy the Panama-Pacific International Exposition at its best; it being your conviction that our officials cannot make good their claims to have the Exposition ready for the public by the opening date, Feb 20, 1915. This seeming misapprehension it is my hope and endeavor to correct.

I do not know on what grounds you base your belief that this Exposition cannot be ready on the opening date; the truth is we not only can be, but barring unforseeable disaster, will be. All our plans are based on a schedule which calls for completion in ample season and today we are ahead of the schedule. Our main exhibit palaces will be entirely finished and ready for exhibits by July 1st. Three of the twelve are ready now. The only exhibit building that may be incomplete by July 1st, is that of Fine Arts, a steel construction, but we do not wish to install the exhibits there until close to the time of opening, and the building will be ready long before we need it. We are pushing the building of the state and national pavilions, and they will be ready, too.

As for exhibits, our total space is already over-applied for, and there remains only the task of selection and allotment of space. Exhibitors will have fully eight months to make their installations.

By all means let the Canners come out here in 1915. If they don't they will miss the most beautiful and most important exposition in all history.

As it may well be, that a word from your influential journal may change the current of opinion among the Canners, and lead to the convention coming to California, may I hope to enlist your co-operation towards this wished-for consummation. Anticipating my cordial thanks, I am,

Very truly yours,
GEO. HOUGH PERRY,
Director, Division of Exploitation.
San Francisco.

A New Seed Postal Bill.

On the 24th inst. Curtis Nye Smith advised us that Senator Pomerene had introduced a bill (S. 4980) to place seeds, cuttings, etc., in 4th class matter at the rate of one cent for two ounces or fraction thereof on packages containing eight ounces or less. Mr. Smith now informs us that on the 23rd inst. said bill was reported favorably without amendment from the Committee on Postoffices and Post-Roads, ordered to be engrossed for a third reading, read the third time, and passed. This bill now goes to the House.

Yours truly,
CURTIS NYE SMITH.

Chicago Seed Trade.

Five consecutive days without a ray of sunshine and with cold March winds blowing have reduced counter trade to a minimum. Spring rains are putting the ground into condition for planting but are not conducive to enthusiasm for buying seeds, and the retail seedsmen are having time now to finish all the details of preparation for the busy days just ahead.

The supply of onion sets is about exhausted here and this week will practically close the season. The large dealers say the orders are coming in, not only from the West but from the South and are now being turned down. While the local crop was not up to the average in size and better than the average in keeping qualities there were not enough to supply the deficiency in other parts of the country and many more car loads could be used to fill orders now coming in. The season closes with prices from $2.50 to $2.75 per bushel on small lots. There are said to be no sales in large lots. Beans are selling from $6.00 to $7.00 per bu. and are scarce. There are plenty of most kinds of peas and they sell for $6.00 and $8.00 per bu., according to variety.

New Seed Testing Law in New York.

With reference to the New York Seed Law, I beg to advise, that:

Assembly Bill No. 678 Int. 660, an act to amend the agricultural law, in relation to inspection and sale of seeds, introduced by Mr. Tallett, has not only passed the legislature, but has the approval of the Governor, and is now a law. The purport of the bill was to change the method of testing seeds from "by count" to "by weight." In all other respects the law remains unchanged.

MARSHALL H. DURYEA.
New York State Correspondent,
American Seed Trade Association.

Congressional seed distribution has been recognized by the bankruptcy courts at last. When Representative Treadway of Massachusetts opened his mail, the other morning, he found a newspaper account of a man in Pittsfield who had gone broke and who filed a petition in bankruptcy. The news article gave the liabilities as $116,000 and the assets at $110 "and a package of seeds from Representative Treadway."

"SEEDS WITH A LINEAGE"
Seeds with a generation of finest flowers and vegetables back of them—carefully selected really tested.
Write today for Catalog.
CARTER'S TESTED SEEDS, Inc.
166 Chamber of Commerce Bldg.
Boston, Mass.



Mail Your Order To-day

QUEEN OF THE MARKET
Extra Early

	Trade Pkt.	Oz.
White	$0.20	$0.75
Blush Pink	.20	.75
Rose Pink	.20	.75
Light Blue	.20	.75
Dark Blue	.20	.75
Crimson	.20	.75
Choice mixed	.20	.65

MICHELL'S IMPROVED
Semples' Branching Aster

Lavender	.30	1.00
Shell Pink	.30	1.00
White	.30	1.00
Rose Pink	.30	1.00
Purple	.30	1.00
Crimson	.30	1.00
Choice mixed	.30	1.00

ASTER, INVINCIBLE

Blue	.30	1.50
Crimson	.30	1.50
Lavender	.30	1.50
Rose Pink	.30	1.50
White	.30	1.50
Mixed	.30	1.25

Write for Wholesale Catalog.
MICHELL'S Seed House
Dept. Q. 518 Market St., Phila., Pa.

MY GIANT
Winter Orchid Sweet Pea
are grown by over 3000 growers this winter. If you have not seen them in flower, ask your nearest grower and see for yourself. Nothing will pay better in the next ten years than these popular flowers. New seed will be ready in August. To plant one house 20x100 will not cost you over $15.00.
Write for information to the ORIGINATOR,
ANT. C. ZVOLANEK
Sweet Pea Ranch LOMPOC, CALIF.

Burpee's Seeds
PHILADELPHIA
BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT

S. S. SKIDELSKY & CO.
BULBS, PLANTS and SEEDS
1218 Betz Bldg., Philadelphia
Catalogue on application

Cold Storage Valley
Of finest quality for Early and Late forcing in cases of 1000, 500 and 250 pips at $16 per 1000. All expenses paid.
Corp. of CHAS. F. MEYER
99 Warren Street, NEW YORK

FARQUHAR'S EVERGREEN LAWN GRASS SEED

In making or renovating a lawn, much depends on the Grass Seed Mixture used. Why not have the best?

Our Lawn Grass Mixtures are all composed of the finest quality seeds, and under normal conditions, should produce the best results. The formulas used are the result of a lifelong experience with grasses adapted to lawn making in this country.

Special Mixtures for—Shady Places, Putting Greens, Fair Greens, Sea Shore, Tennis Courts, Terraces

Catalogue on application

R. & J. FARQUHAR & CO., Boston, Mass.

SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

BURNETT BROS.

SEEDSMEN

98 Chambers St., NEW YORK

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

Braslan Seed Growers Company

Large wholesale growers of ONION, LETTUCE, CARROT, RADISH, PARSNIP, PARSLEY, CELERY, ENDIVE, LEEK, SALSIFY and SWEET PEAS.

SAN JOSE, CALIFORNIA

Write for 1914 Contracting Prices

NEW CROP SEEDS

FOR FLORISTS

Ask for 1914 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety, also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS 82 Dey St., NEW YORK

and ORANGE, CONN.

SEEDS FOR FLORISTS

SPECIAL STRAINS

OUR ASTERS, CYCLAMEN AND PRIMULAS ARE UNEQUALLED.

Trade List Ready.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

PAEONIES

$10.00 per 100

In five colors

WHITE CRIMSON ROSE PINK CARMINE

TUBEROSES

Dwarf Double Pearl. Extra large size

$10.00 per 1000

Gladioli and Tigridias

All the leading varieties. Prices on application

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T-25) NEW YORK, N. Y.

New Crop Seeds

FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.

STAMFORD, CONN.

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

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WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

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FLORISTS
Telephones 1501 and L 1582
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OMAHA, NEB.

SEND **ALBANY** ORDERS TO
FRED. A. DANKER
40 Maiden Lane, Albany, N. Y.
Member Florists' Telegraph Delivery.

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Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

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Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Woonsocket, R. I.—Alonzo Vose.

Stamford, Ct.—Enterprise Floral Company.

Providence, R. I.—Fenner Street Floral Co.

Buffalo, N. Y.—S. T. Puchalsk, 925 Grant street.

Nashville, Tenn.—M. H. Skalowski, Church street.

Sioux City, Ia.—Rocklin & Lehman, 402 Fourth street.

Indiana Harbor, Ind.—D. T. Matchin, 3707 Cedar street.

Baltimore, Md.—Berman & Miller, 308 W. Saratoga street.

Pittsburgh, Pa.—Geo. W. Marshall, 231 Diamond street, (wholesale).

Chicago.—H. C. Mulder and Saphrona Dye as University Florists, 1121 East 55th street; A. Mundwiller, 208 N. Cicero avenue; Mr. McMillan, 3444 W. 63rd street; M. Hoffenberg, 1149 S. Kedzie avenue; Max Schmiedal, 10262 Ewing avenue; Humboldt Florists, North avenue and Kedzie avenue.

STEAMER DEPARTURES

Allan.

Hesperian, Boston-Glasgow..Apr. 14

American.

St. Paul, N. Y.-S'hampton...Apr. 10

Atlantic Transport.

Minnewaska, N. Y.-London..Apr. 11

Cunard.

Mauretania, N. Y.-Liverpool.Apr. 7
Laconia, N. Y.-Mediter'n.....Apr. 11

French.

France, N. Y.-Havre.....Apr. 8
Chicago, N. Y.-Havre.....Apr. 11
La Lorraine, N. Y.-Havre....Apr. 15

Hamburg-American.

Kn. Aug. Vic., N. Y.-H'mb'rg.Apr. 9
Pres. Lincoln, N. Y.-H'mb'rg.Apr. 11
Imperator, N. Y.-Hamburg..Apr. 15

Holland-America

Noordam, N. Y.-Rotterdam..Apr. 7
Ryndam, N. Y.-Rotterdam...Apr. 14

Leyland.

Devonian, Boston-Liverpool..Apr. 18

North German Lloyd.

Kr. W'm II, N. Y.-Bremen..Apr. 7
Seydlitz, N. Y.-Bremen.....Apr. 9
Pr. Irene, N. Y.-Mediter'n...Apr. 11
Kron. Wilh'm, N. Y.-Bremen.Apr. 14

Red Star.

Kroonland, N. Y.-Antwerp..Apr. 11

White Star.

Baltic, N. Y.-Liverpool.....Apr. 9
Oceanic, N. Y.-S'hampton....Apr. 11
Laurentic, N. Y.-Liverpool...Apr. 11
Cymric, Boston-Liverpool....Apr. 14

NEW CORPORATIONS.

New York City.—United Cut Flower Company. Capital, $15,000. Incorporators, D. J. Pappas, N. J. Lales and J. Tryforus.

Ashtabula, O.—Dunbar-Hopkins Co., capital stock, $100,000. Incorporators, E. Dunbar, A. W. Hopkins, Mrs. L. Dunbar and Jessie Hopkins.

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
Palmer's
304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

CHICAGO

And Neighboring Towns

Are Thoroughly Covered by

SCHILLER, THE FLORIST

(Member Florists Telegraph Delivery).

Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of

GEORGE ASMUS, Mgr.

2221-2223 W. Madison St., CHICAGO.

'Phone West 822

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STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

P. McKENNA & SON

(Established 1851.)

770 St. Catherine St., West

MONTREAL, CANADA

We give Special Attention to Telegraphic Orders

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TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

11 NORTH PEARL STREET, ALBANY, N. Y.

ST. LOUIS, MO.

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4326-28 Olive St.

Member Florists Telegraph Delivery Association

NOTICE INITIALS. We have one store only

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

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MONTREAL

HALL & ROBINSON

825 ST. CATHERINE ST., W.

All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—Fred A. Danker, 40 Maiden Lane.
Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

New York.—Samuel A. Woodrow has purchased the entire business interests of Woodrow & Marketos, wholesale plant dealers at 41 West 28th street. Business will, however, be continued under the old firm name.

Elizabeth, N. J.—Business has been very satisfactory the past few weeks in this locality considering the time of the year. Plants of all kinds are selling well and at the present time there is a better call for these than for flowers. Among the leading establishments here are the Union Square Floral Shop which reports business the past few weeks as very good considering the time of the year, and a very large Easter trade in prospect; J. J. Brummer, who makes a similar report; J. A. Meekins who anticipates a very large business in potted plants for the Easter trade; John White, Jr., who is busy getting his houses in shape for the Easter rush, and who has a big supply of very healthy looking bedding stock.

ORDERS FOR

NEW YORK

WIRE OR PHONE TO

MAX SCHLING

22 West 59th Street, adjoining Plaza Hotel

Best Florists in the States as References

EUROPEAN ORDERS EXECUTED

Members of the Florists Telegraph Delivery.

BOSTON, MASS.

Penn the Florist

"Penn, The Telegraph Florist"

Member of Florists' Telegraph Delivery

37-43 BROMFIELD STREET

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders.

Members of F. T. D. Association.

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Flower and Plant Deliveries.

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1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

M. RICE CO.

The Leading Florists' Supply and Ribbon House

1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.

L. L. MAY & CO.

Catalogue Free on Application

Order Your Flowers for delivery in this section from the

LEADING FLORISTS OF THE NORTHWEST

BUFFALO

S. A. ANDERSON

440 MAIN STREET

Special Deliveries Niagara Falls and Lockport

RANDALL'S FLOWER SHOP

HARRY I. RANDALL, Proprietor.

Phone: Park 94

3 PLEASANT ST., WORCESTER, MASS.

Member Florists Telegraph Delivery Association

ZINN THE FLORIST

WILL GIVE CAREFUL ATTENTION to all Transfer Orders for
Easter Delivery of Flowers or Plants in

Boston and All New England Points

ZINN THE FLORIST

1 PARK STREET, BOSTON, MASS.

MAX SCHLING'S BOOTH.



"The Temple of Flora" in Retailers' Section of New York Spring Show. Mr. Schling was awarded on the closing day of the show a silver medal for the most novel display made by a retail florist

A Florist's Necessity **HART'S HANDY HANDLE**

Fits securely on any standard pot and by the use of a little chiffon or ribbon gives you a Basket effect at a very small additional expense, increasing the price of your plants 100 per cent.

1	12	inches high,	$2.50	per doz.	4	24	inches high,	$5.00	per doz.
2	15	" "	3.50	" "	5	30	" "	6.50	" "
3	18	" "	4.00	" "	6	36	" "	9.00	" "

At Your Dealer's or Direct.

GEO. B. HART, Manufacturer, 24 to 30 Stone Street, Rochester, N.Y.

KOMADA BROS.
Manufacturers of all Kinds of
WIRE DESIGNS and FLORISTS SUPPLIES
1008 Vine St., PHILADELPHIA, PA.

EASTER SUPPLIES.

To have them Right and in Time the Best in the World can be had from the Advertisers in This Paper.

ORDER THEM NOW.

Florist's Refrigerators
Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.
UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

TELEGRAPH ORDERS

forwarded to any part of the United States,
Canada and all the principal cities of Europe

Alexander McConnell

611 FIFTH AVENUE, - Corner of 49th Street
NEW YORK CITY

Cable Address, ALEXCONNELL

Reference or cash must accompany all orders from unknown correspondents

In Writing Advertisers Kindly Mention HORTICULTURE.

EASTER

Deliveries in

WASHINGTON
D. C.

* * *

F. H. KRAMER
915 F St., N. W.

Auto delivery of Plants and Flowers to any address in Washington.

Stock and Work First Class.

EASTER ORDERS



Delivered in

WASHINGTON
D. C.

GUDE BROS. CO.
1214 F St., N. W.

Members Florists' Telegraph Delivery.

PARIS LONDON BERLIN

EASTER DELIVERIES

IN BOSTON AND NEW YORK

We are prepared to deliver in good shape, flowers, plants, or made up work as ordered. Florists at a distance may transfer their orders by mail, telegram or 'phone to us with a certainty of prompt and careful attention.

THOMAS F. GALVIN, Inc.

126 TREMONT STREET COPLEY PLAZA HOTEL BOYLSTON & FAIRFIELD STS.

BOSTON, - - MASS.

Also THOMAS F. GALVIN, Inc., Galvin Building
561 Fifth Avenue, New York

SAMUEL MURRAY

913 GRAND AVE.

KANSAS CITY, MO.

Member of the Florists' Telegraph Delivery

Orders For Easter Delivery of Flowers,
Designs or Choice Plants
Given Prompt and Careful Attention

CHICAGO NOTES.

John Riemersma, of Indiana avenue and 71st street, has added two handsome greenhouses for show purposes to his retail place.

The A. A. Arnold Paper Box Co. has found a market for its flower boxes in many parts of the world. An order just received is from Honolulu.

Work is now under way at the Coliseum getting ready for the Forestry Exhibit, which will be of special interest to many in the trade. The opening takes place April 30.

Some splendid specimens of Pelargonium Easter Greetings, are in this market and they are much admired. They are said to be free and continuous bloomers and are certainly very attractive. There is always room for more blooming plants here at Easter.

Chicago has a sort of epidemic of new retail flower stores this week. Evidently with an eye to capturing a share of the Easter trade, six within the city limits have sprung into existence and one just outside at Indiana Harbor. The list is given on another page.

The German, who, under the various names of Miller, Frei and Pajonk, has been advertising geranium and other young plants fraudulently, in some of the trade papers, is now in Joliet, Ill., where he was sentenced by Judge Landis for two years. The advertisements asked for cash before shipment and his correspondence shows that he had many responses. Florists from all parts of the country are out hundreds of dollars and are calling upon the papers to make good their loss. His case was tried in the Federal Court for fraudulent use of the mails.

WASHINGTON NOTES.

The sympathy of the entire trade is with Mr. Leapley, of Leapley & Meyer, whose brother, Peter F. Leapley, died last week at the age of twenty years.

Richard Vincent, Jr., of White Marsh, Md., delighted the citizens of Hyattsville, Md., on Tuesday evening last, with his illustrated lecture on dahlias and other flowers, which he delivered at the First Baptist Church.

A potted French marguerite, measuring six and one-half feet in diameter, in the window of George H. Cooke, is attracting considerable attention. This novelty was brought from New York by Mr. Cooke on his return from the show.

The Department of Agriculture will have a new office building at the south side of B street between Thirteenth and Fourteenth, according to a statement just made public. It is said that the building will cost $300,000, will be eight stories high and will contain 200 rooms.

The next regular meeting of the Florists' Club of Washington will be held on Tuesday evening, April 7. The business will be of direct interest to all as a discussion will no doubt be held on certain matters now pending in Congress among which is one to increase the taxes on property through the abolishing of the present half-and-half principle by which Congress annually appropriates one-half of the funds necessary to conduct the affairs of the District of Columbia.

Our Specials for Easter

BEAUTIES

A good supply of the special and a fair amount of the medium. We can recommend them to you for Quality—fine large buds of a good color.

KILLARNEY BRILLIANT

Our grower expects to cut a large quantity of them for Easter. It's the only supply of this new rose. The prices are very moderate. You will find ready sale for them.

GARDENIAS

There is no limit to our supply. We offer you a good grade at $3.00 per dozen.

No scarcity in any line, plenty of **Valley, Sweet Peas, Snapdragon, Daisies, Stock, Pansies, Lilies.**

THE LEO NIESSEN CO.
PHILADELPHIA, PA.



Cut Flowers for Easter

Ample supplies of all staples in cut flowers

ROSES, CARNATIONS, VIOLETS, VALLEY, ORCHIDS, GARDENIAS

EVERYTHING IN SEASONABLE GREENS

Everything in Season — Notice New Address.
Long Experience — Best Facilities.
Careful, Conscientious Service — Central Location.

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WHOLESALE FLORISTS
Philadelphia, Pa.

Heavy Supply for Easter!

Anything and Everything in Seasonable Cut Flowers

Roses, Carnations, Easter Lilies, Violets, Sweet Peas, Tulips, Jonquils, Daffodils, Mignonette and other High Grade Quality Stock.

Also a large supply of our famous **Blue Ribbon Valley,** which is recognized by city buyers to be the **best Valley** on the Chicago market. **Order some and be convinced.**

OUR MOTTO

HONEST DEALING **GOOD VALUES**

We aim to **please** in every respect, and out-of-town customers will be **benefited** by sending us their orders; by so doing you will find we can **save you money.**

☞ **We grow our own stock,** thereby assuring you of getting **absolutely fresh stock,** besides **saving you the commission man's profit.**

Quality Speaks Louder Than Prices.

J. A. BUDLONG

82-86 East Randolph Street, CHICAGO

ROSES, VALLEY and CARNATIONS A Specialty------ WHOLESALE Grower of **CUT FLOWERS**

Easter Orders Now Being Booked.

LILIES FOR YOU!

Notwithstanding the Late Date of Easter Our Lilies will be of The Same High Grade that we Have Been Furnishing in Years Past

We pack in Boxes of Twenty-five Pots each, Nicely Crated over the Top. Our Packing is Undoubtedly the BEST IN THE UNITED STATES. Average 5 Flowers to the Plant. One Extra Plant, gratis, in each Crate.
Prices in case lots, 12c. per Flower or Bud. ORDER EARLY so that we may be able to Ship Them Direct from the Greenhouses Without Rehandling.

We carry a full line of Fresh Choice Flowers, all varieties, and the largest stock of Florists' Supplies, Artificial Flowers and Foliage in New England

Roses are Our Specialty

The Killarneys, Richmond, Cardinal, Killarney Queen, Maryland, Russell and all the popular Novelties in all grades and prices.

Florists' Supply Department

Easter Baskets, Vases, Novelties in All Lines.

Plant Auction Sales for Spring Season have begun and will continue each Tuesday and Friday until June

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We are prepared to supply the best quality of Easter Plants for Select Store Trade. Now is the time to order before the stock is depleted.

FINE LILIES

In Crates of 25 Plants, Ready for Shipment. Price $12.00 per 100

Roses in all the Standard Varieties; All the Best Carnations in Exceptional Quality; Yellow Daisies, Primroses, Lily of the Valley and Spring Bulb Flowers; Violets, Sweet Peas, Cattleyas, Gardenias, etc., etc.

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The ALBANY CUT FLOWER EXCHANGE

is well equipped to fill a demand, much of which in the past has been indifferently cared for. So, **if you want**

Flowers, Greens or Supplies For EASTER or Any Other Time

the right place, the right goods, the right service at the right time, are now at your disposal. **ORDER EARLY** and you can include all the popular **ROSES** and **CARNATIONS, LILIES, LILY OF THE VALLEY** and **BULB STOCK, VIOLETS,** etc.

THOMAS TRACEY, Mgr. ALBANY, N. Y.

Easter Flowers

American Beauties, Killarneys, Lilies, Carnations, Violets
and Spring Bulb Flowers

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Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI March 30	CHICAGO March 30	BUFFALO March 30	PITTSBURG March 30
Am. Beauty, Special	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	35.00 to 50.00
" " Fancy and Extra	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	20.00 to 30.00
" " No. 1	10.00 to 15.00	15.00 to 25.00	15.00 to 20.00	10.00 to 15.00
Killarney, Extra	6.00 to 8.00	8.00 to 12.00	8.00 to 10.00	8.00 to 12.00
" Ordinary	4.00 to 6.00	3.00 to 5.00	..... to 3.00	4.00 to 6.00
Richmond, Hillingdon, Extra	8.00 to 10.00	8.00 to 12.00	6.00 to 8.00	8.00 to 15.00
" " Ordinary	4.00 to 6.00	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00
Maryland,,Ward,Taft,Sunburst,Ex.	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00	8.00 to 12.00
" " " " Ordinary	6.00 to 8.00	3.00 to 5.00	3.00 to 6.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to	..... to	..... to .....
Carnations, Fancy	2.00 to 3.00	3.00 to 5.00	2.00 to 3.00	..... to 4.00
" Ordinary	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00	..... to 2.00
Cattleyas	35.00 to 50.00	50.00 to 60.00	40.00 to 50.00	35.00 to 50.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 15.00	10.00 to 12.00	12.00 to 15.00
Callas	10.00 to 12.00	8.00 to 10.00	8.00 to 12.00	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Freesias	2.00 to 3.00	3.00 to 4.00	2.00 to 4.00	..... to 2.00
Daffodils	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Tulips	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Violets	.50 to .75	.50 to .75	50 to .60	..... to .50
Mignonette	5.00 to 6.00	4.00 to 8.00	2.00 to 5.00	4.00 to 6.00
Daises	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50	2.00 to 3.00
Sweet Peas	.75 to 1.50	.50 to 2.00	.50 to 1.00	.40 to .75
Gardenias	25.00 to 35.00	25.00 to 40.00	..... to	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to .....
Smilax	12.50 to 15.00	12.00 to 16.00	..... to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	50.00 to 75.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00	30.00 to 50.00

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AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
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Simple methods of correct accounting especially adapted for florists' use.
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10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

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Wholesale Florists
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Please mention Horticulture when writing.

When writing to advertisers kindly mention HORTICULTURE.

Flower Market Reports

BOSTON An overloaded market with greatly reduced demand on every staple line is the situation here this week. Everything from the finest American Beauties down to the foot of the list is in excessive supply. The only things that have any activity are Easter lilies, violets and the rose novelties. Quality is high on all kinds of stock, but in the present flooded condition of the market that does not help matters much. Warmer weather is now in sight so very little change for the better can be looked for until Easter.

BUFFALO Trade has again been on the quiet side the past week and in a good many instances stock had to be forced to the buyers. There has been a heavy supply of about everything, especially carnations and roses. Business was very light up to Saturday and stock had accumulated heavily. Floral work was lightly scattered and social functions practically out of existence. Transient trade was also quiet and had it not been for the "week end" sales the volume of business was the lightest in some time. It is hoped that things will shape up into better market conditions the coming week.

CHICAGO A depression has come over the market and the wholesalers are finding it difficult to move stock even at bargain prices. Trade kept up fairly well 'till after the close of the third week in March when conditions similar to those early in the month returned. Stock is feeling the effect of continued rainy weather and is not quite as tempting to the buyers, who, on the other hand, feel the need of especially attractive flowers to stimulate business. The proximity to Easter is another cause, no doubt, though Lent is generally conceded to make little difference this year in demand for flowers, which is largely for funeral work. Plenty of daffodils are coming up from the South, but there is such a difference in quality and size from Northern ones that they do not cut into the sales of the latter. There is an abundance of sweet peas and prices have a wide range. Carnations cannot be said to be at their best and American Beauties, with few exceptions, are out of the question if good quality is desired. Roses are changing hands at lower prices just now than in many months before and some sales are reported as low as $15 per thousand for very fair stock. Some good violets are still among the offerings. Ferns have taken another jump and are selling for $3.50 per thousand with every indication that they will go higher.

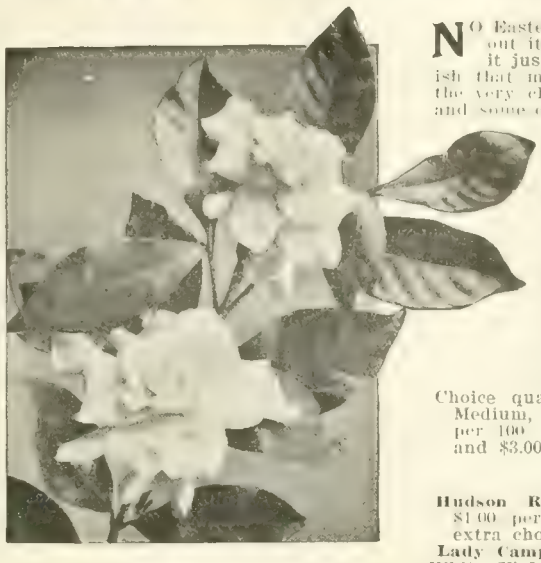
NEW YORK Market conditions are extremely bad here at the present time. The supply far exceeds the demand, overstock is in sight everywhere and prices obtained are extremely low. Bulbous stock is in unmanageable surplus but the quality is exceedingly fine and these fine blooms are worthy of a better fate than they have to face this week. As to roses it is only the scarcer varieties and novelties that bring quoted rates. The standard varieties are being sold in thousand lots at $10 to $15 in the lower grades. There has been a considerable drop in price on southern asparagus. Carnations, violets and lily of the valley are all in the same predicament as the roses.

PHILADELPHIA The market has been fairly satisfactory, but the rain-storm last Saturday spoiled things for the clean up, and a great deal of stock was left over unsold. Outside of this there was little change in conditions or prices from last report; prices if anything rather easier. White carnations seem to be more abundant. Stocks of all kinds continue very good and plentiful. Easter lilies and callas are selling rather better, although the prices rule low. Outdoor daffodils from South are selling at $5 to $6 per thousand.

ST. LOUIS With Easter only two weeks away it will be hard to tell now just how stock is going to be in this market. The maket continues in an overloaded

(Continued on page 547)

Flowers For The Easter Parade



NO Easter costume is complete without its corsage of flowers, giving it just that dainty touch and finish that make it perfect. Some want the very choicest, some medium priced and some cheaper flowers, but the majority—the masses—want the moderate-priced flowers, which we will have in quantity.

Plenty of **VALLEY**
Special, $4.00 per 100; Extra, $3.00 per 100.

GARDENIAS
Special, $4.00 per doz; Fancy, $5.00 per doz.

SWEET PEAS
Choice quality. Long, $1.50 per 100. Medium, $1.00 per 100. Spencers, $2.00 per 100. Spencers, extra long, $2.50 and $3.00 per 100.

VIOLETS
Hudson River Doubles, very choice, $1.00 per 100. A limited supply of extra choice Specials.....$1.25 per 100
Lady Campbell Violets.... 1.25 per 100
White Violets..... 2.00 per 100

LILAC, lavender and white.....$1.25 per bunch
Write for our complete list of Easter offerings.
EVERYTHING IN RIBBONS. We carry one of the largest and most varied stock of Ribbons pertaining to the florist business of any house in the country. If you have not received one of our new catalogues advise us and we will mail you one at once.

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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON April 2			ST. LOUIS March 30			PHILA. March 30		
Roses									
Am. Beauty, Special	30.00	to	40.00	30.00	to	40.00	40.00	to	50.00
" " Fancy and Extra	15.00	to	25.00	15.00	to	25.00	25.00	to	30.00
" " No. 1	8.00	to	10.00	8.00	to	10.00	15.00	to	20.00
Killarney, Extra	5.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	2.00	to	4.00	2.00	to	4.00	3.00	to	4.00
Richmond, Hillingdon, Extra	5.00	to	8.00	6.00	to	8.00	10.00	to	12.00
" " Ordinary	2.00	to	4.00	3.00	to	4.00	3.00	to	6.00
Maryland, Ward, Taft, Sunburst, Extra	5.00	to	8.00	6.00	to	8.00	6.00	to	8.00
" " " " Ordinary	2.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Russell, Shawyer	8.00	to	12.00	.....	to	.....	6.00	to	20.00
Carnations, Fancy	2.00	to	3.00	2.00	to	4.00	4.00	to	5.00
" Ordinary	1.00	to	2.00	1.00	to	1.50	3.00	to	4.00
Cattleyas	20.00	to	40.00	40.00	to	50.00	15.00	to	40.00
Lilies, Longiflorum	8.00	to	10.00	10.00	to	12.50	10.00	to	12.00
Callas	6.00	to	10.00	10.00	to	12.50	.....	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	3.00	to	4.00
Freesias	1.00	to	2.00	2.00	to	3.00	.....	to	4.00
Daffodils	1.00	to	2.00	2.00	to	3.00	3.00	to	4.00
Tulips	1.00	to	3.00	2.00	to	3.00	3.00	to	4.00
Violets	50	to	.75	.20	to	.40	.50	to	.75
Mignonette	2.00	to	4.00	4.00	to	5.00	3.00	to	4.00
Daisies	.50	to	1.00	.....	to	.....	.75	to	1.50
Sweet Peas	.50	to	1.25	.20	to	1.25	.50	to	1.50
Gardenias	15.00	to	20.00	.....	to	.....	10.00	to	15.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	.....	to	25.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	.....	to	50.00

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Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
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A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
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OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
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THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Mar. 28 1914	First Half of Week beginning Apr. 1 1914
American Beauty, Special	15.00 to 25.00	15.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 15.00
" " No. 1	8.00 to 10.00	8.00 to 10.00
Killarney, Extra	4.00 to 6.00	4.00 to 6.00
" Ordinary	1.00 to 4.00	1.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 6.00	4.00 to 6.00
" Ordinary	1.00 to 4.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 12.00	4.00 to 12.00
" " " Ordinary	2.00 to 4.00	2.00 to 4.00
Russell, Shawyer	2.00 to 6.00	2.00 to 6.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
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Ample reference furnished as to standing and financial ability of the company.
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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

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WHOLESALE
Plantsmen and Florists
37 and 39 West 28th St., NEW YORK

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 545)

condition, prices have gone away down and all kinds of stock in all grades are so plentiful, and the call so small that a great many flowers are dumped by the wholesalers. The daily supply from our local growers has been larger than any time this year and should this fine weather continue, this will continue right up to Easter. The flowers that are in greatest abundance are violets, carnations, sweet peas and roses. Some of the prices obtained for them in thousand lots could hardly be quoted correctly.

WASHINGTON The bottom has certainly dropped out of the local market so far as prices are concerned, for the annual glut is on and the buyer's offer is more often accepted in place of the quoted prices. The rising temperature has caused the maturing of large quantities of bulbous stock with the probable result of cleaning the market of these before Easter. Outdoor jonquils have made their appearance and while holding up to a good price early in the week they have commenced to decline. Hordes of pedlars daily line the streets offering arbutus, sweet peas, pansies and violets at prices which make their handling by the storekeepers a losing proposition. Roses and carnations of exceptional quality can be had at low figures and gardenias seem almost to have no price at all. Of all the flowers now in the market Easter lilies alone can be said to have retained their hold, for these continue to bring $1.50 per dozen, as they have for many months. Growers, as a whole, in and about the city of Washington are well pleased with the prospects of full stocks of all varieties for the Easter trade. From all reports it would appear that there will be more than enough lilies of local production. Roses in the popular sized pots will be sent in to the stores in large quantities and it is promised that the quality will be A1. This same will apply to azaleas, rhododendrons and other seasonable potted plants. The marketmen are already planning for the erection of large stands on which to display their plants and although business is now down to the dregs, it is believed that this condition will change during the coming week.

Kansas City, Mo.—Kansas City already has a country-wide fame for its parks and boulevards; now, it appears, there is a chance that it is to get itself talked about as a city of flowers, the Kansas City Star thinks. Kansas City florists and seedsmen say there is a rapidly growing interest in flower culture here and that the coming season promises to see greater activity in ornamental gardening enterprises than ever before.

In hundreds of homes improvised indoor "hotbeds" germinate seeds that later are to be transplanted to porch and window boxes, hanging baskets and lawn beds, and enthusiastic flower lovers are completing lists of roots and bulbs of hardy flowering shrubs that are to be set out.

A plan has been formulated which if adopted, would make Kansas City distinctive among all of the large cities of the country. It is proposed to have the business district, as well as the residence sections, take up window gardening as a work of civic improvement in the summer months, with the effect of giving the city a dress of blossoms and trailing vines to relieve the bare masonry and monotonous architecture. The idea is one that has been carried out in many European cities, greatly to their beautification.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 28 1914	First Half of Week beginning Apr. 1 1914
Cattleyas	25.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	4.00 to 6.00	4.00 to 6.00
Callas	4.00 to 6.00	4.00 to 6.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Freesias	1.00 to 2.00	1.00 to 2.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 3.00	1.00 to 3.00
Violets	.15 to .25	.15 to .25
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	6.00 to 8.00	6.00 to 8.00
Gardenias	10.00 to 25.00	10.00 to 25.00
Lilacs (per bunch)	.. ... to 1.00	..... to 1.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	20.00 to 30.00	20.00 to 30.00
" " & Spren (100 bunches)	15.00 to 20.00	15.00 to 20.00

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

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APHIS PUNK

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Asparagus Plumosus Nanus Seedlings.
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J. E. Felthousen, Schenectady, N. Y.
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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

ASTER SEEDS

Michell's Seed House, Philadelphia, Pa.
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AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

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Bay Trees and Box Trees, all sizes and prices. List on application.
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Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANDY TUFT

For Sale—About 1000 Giant Candy tuft, 2½ in. pots; good strong plants, $2 per 100, $15 per 1000. E. G. BLANEY, 163 Burrill St., Swampscott, Mass.

CANNAS

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Swastika Brand Cannas.
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108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATIONS

Unrooted cuttings, White and Light Pink Enchantress, Harlowarden, fine healthy stock, 75 cts. per 100; $6.00 per 1000. Sample by mail. W. A. FINGER, Hicksville, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¹, c. $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

Thomas Roland, Nahant, Mass.
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DAHLIAS

Henry A. Dreer, Inc., Philadelphia, Pa.
The Most Desirable Dahlia for Cut Flower, Delice.

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

Dahlias—Clean, healthy stock, fully matured, novelties and standard varieties, true to name and at reasonable prices. Also Gladioli, field-grown Hollyhocks, Herbaceous plants, etc. Send business card for catalogue. W. W. WILMORE, Box 382, Denver, Colo.

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NEW PAEONY DAHLIA
John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

Surplus stock of divided field clumps, sound stock, labeled true to name. Henry Lyndhurst, Sylvia, Mrs. Hartong, Souvenir Douzon; $1.25 per 100; $10.00 per 1000. Arabella, Bon Ton, Baron Schroeder, Livoni, Crimson Globe, Kriemhilde, Mary D. Hallock, Clifford Bruton, Henry Patrick, Maid of Kent, Catherine, Mars, Manhattan Beauty, Jack Rose, Snowclad, William Agnew, Striped Banner, Queen Victoria; $1.50 per 100; $12.00 per 1000. In separate colors, $1.25 per 100; $10.00 per 1000. Mixture of all colors, $1.00 per 100; $7.50 per 1000; 25 at 100 rate; $2.50 at 1000 rate. Descriptive Trade List mailed on application. MANNETTO HILL NURSERIES, Hicksville, N. Y.

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Dracaena Indivisa, fine stock, 3 in., $5; 4 in., $10; 5 in., $15; 6 in., $25—per 100. Cash please. J. W. MILLER, Shiremanstown, Pa.

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GLADIOLUS

Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

Gladiolus—America and Independence, all sizes. Write for samples. MUNSELL AND HARVEY, Ashtabula, Ohio.

GLADIOLUS.
1000 Glory, first size. CHAMBERLAIN & GAGE, Wellesley, Mass.

Gladiolus—America, by express, all sizes from No. 1 down to bulblets. Prices on application. M. CRAWFORD CO., Cuyahoga Falls, Ohio.

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Unleached Hardwood Ashes For Sale. GEORGE L. MUNROE & SONS, Oswego, N. Y.

In writing to Advertisers kindly mention Horticulture

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LAURUS
Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
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PANSY PLANTS
125,000 large, stocky (September transplanted), field-grown, blooming pansy plants; Henry Mette's strain, all salable stock, satisfaction guaranteed, $1.00 per 100, $10.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

PEONIES
J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Bobbink & Atkins, Rutherford, N. J.
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Rhododendron Carolinianum.

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New Sargent Rose.
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August Rolker & Sons, New York City.
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F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Killarney Queen.

Charles H. Totty, Madison, N. J.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

SEED GROWERS

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SEEDS

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Boston, Mass., and London, England.
"Seeds with a Lineage."
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Peas, Beans, Radish and all Garden Seeds
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Winter Orchid Sweet Pea Seed.
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Burnett Bros., New York City.
Seasonable Seeds.
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SEEDS—Continued.

Stamford Seed & Nursery Co., Stamford, Conn.
Quality Sweet Pea Seeds.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

S. S. Skidelsky & Co., Philadelphia, Pa.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

SNAPDRAGONS

G. S. Ramsburg, Somersworth, N. H.
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SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Strawberry Plants—20 varieties at $2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware. Headquarters for Fall Bearing Strawberry Plants.

TUBEROSES

J. M. Thorburn & Co., New York City.
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VEGETABLE PLANTS

TOMATOES.
5000 Comet Forceing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WALLFLOWERS

Mannetto Hill Nurseries, Hicksville, N. Y.

WEED KILLER.

Pino-Lyptol Chemical Co., New York City.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

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Albany Cut Flower Exchange, Albany, N. Y.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal Floral Co., Ltd., Montreal, P. Q.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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In writing to Advertisers kindly mention Horticulture

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LARGE SPECIMEN EVERGREEN AND DECIDUOUS TREES.
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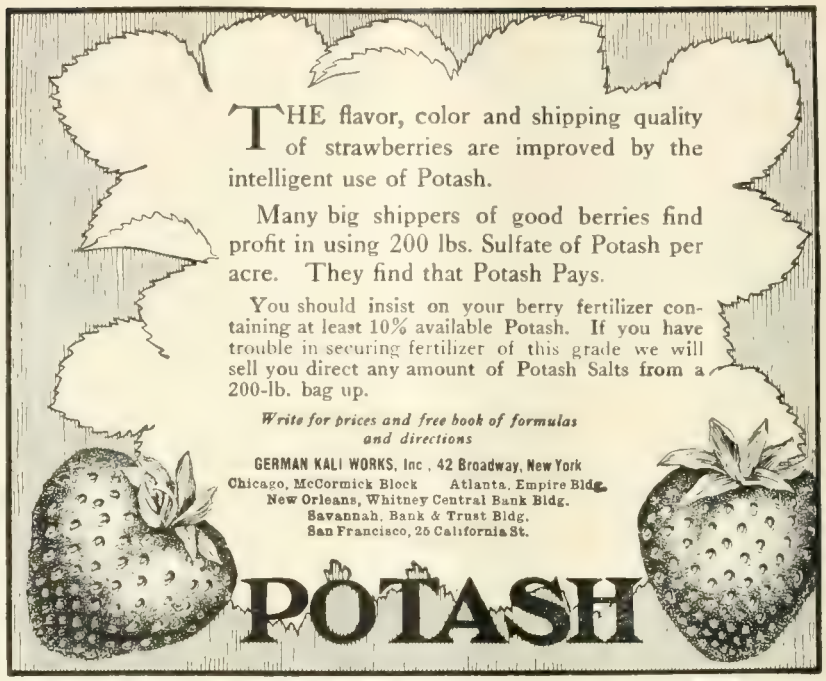
POT COVERINGS FOR EASTER PLANTS.
H. Bayersdorfer & Co., Philadelphia, Pa.
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ROUND UP YOUR CANNA NEEDS.
The Conard & Jones Co., West Grove, Pa.
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SPECIALS FOR EASTER.
The Leo Niessen Co., Philadelphia, Pa.
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SLUG SHOT.
Hammond's Paint & Slug Shot Works, Beacon, N. Y.
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THE NEW FRENCH HYDRANGEAS.
Henry A. Dreer, Inc., Philadelphia, Pa.
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NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying
APHIS PUNK For Fumigating
ASK YOUR DEALER FOR IT.
Guaranteed under the Insecticide Act of 1910, U. S. No. 46.
NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

THREE GOOD BOILERS FOR SALE.

N. F. McCarthy & Co., Boston, Mass.
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WASHINGTON EASTER FLOWER DELIVERIES.

Gude Bros. Co., Washington, D. C.
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PHILADELPHIA NOTES.

Jno. Kulp has sold out his place at Wayne Junction, Phila., to W. C. Weidenbacher and is going into the growing of carnations and roses at Fort Washington, Pa.

Professor W. B. Nissley of State College, Pa., will be the attraction at the next meeting of the Florists' Club, Tuesday evening, April 7. His subpect will be "Fertilizers — Manufactured and Natural." The growers will be out in force as they are all eager to hear the latest in scientific research in the line, and State College has made quite a reputation for progressiveness in horticulture. Quite a number of the younger generation of commercial flower growers are graduates of this institution.

PATENT GRANTED.

1,089,719. Hedge Trimmer. Joseph P. Meyer, Rochester, N. Y.

A FERTILIZER QUERY.

Will you please tell me through HORTICULTURE the best fertilizer for Rubber Trees in large boxes, also for the Latania Borbonica of large size in boxes. Yours respectfully,

A SUBSCRIBER.

Replying to the foregoing we would not hesitate to use any of the plant foods advertised in this paper. A handful of dried blood might be added to the latania food as nothing will color up the foliage so quickly. Liquid cow manure is always good. Whatever is used be careful not to give too much at once. Better a little and often.

FIRES.

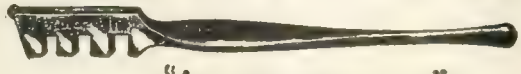
Youngstown, O.—The flower store of George McLean was damaged in a fire which swept the building in which it is located, on Thursday, March 26.

Saginaw, Mich.—The Stevens Gladioli Company's warehouse and contents were totally destroyed by fire last week. The loss is estimated at $15,000, with insurance of $4,200.

SEED TRADE.

Bridgeport, Ct.—Mallett Cockfield Co., have opened a new seed store on Fairfield avenue.

More Red Devil Cutters Used Annually Than All Others Combined



"It's all in the wheel"

Send 6c. for sample No. 024 and Booklet 40 styles, and understand why.
SEND FOR BOOKLET ANYHOW.

SMITH & HEMENWAY CO., . . 161 CHAMBERS ST., NEW YORK

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

Sold by the Seed Dealers

Office of ALFRED GOLDRING, Florist, Cobleskill, N. Y., March 17, 1914



We use Hammond's **SLUG SHOT** on Currant Bushes in the Spring before the leaves are started. We put it on around the roots and have done it for two years, and find that the worms are killed before they get on the bush. For Potatoes we put on **Slug Shot** as soon as the bugs come, and we have good vines, plenty of tubers and no bugs. It is the best thing we have ever used. **For Sow Bugs in greenhouses it is sure death.** We had a lot of them before using Slug Shot, but they get out where it is used.

ALFRED GOLDRING.

Hammond's Paint & Slug Shot Works, BEACON, N. Y.

Aphine

The Insecticide that Kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK



Ram's Head Guano

100 lbs. $2.00

WM. ELLIOTT & SONS

42 Vesey St., New York

BIG BLOOMS

and Strong Plants guaranteed. Mix **DAVIDGE'S SPECIAL PHOSPHORUS** with planting and potting soil. After roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

HUDSON CARBON CO., Ballston Spa, N. Y.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

When writing to advertisers kindly mention HORTICULTURE.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON

Guaranteed under the Insecticide Act. 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men;
in packages for retail trade.
Bag of 100 lbs. $3.50.
Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N. Y.

IN THE GREENHOUSE

The best fertilizer for greenhouse or outdoor use, for carnations, roses, chrysanthemums and violets, or potted plants, is Sheep Manure, and to be certain of the best -full strength - get



SHEEP'S HEAD
SHEEP MANURE

Guaranteed high percentage of nitrogen, phosphoric acid and potash. Weed seeds killed. Will not cause black spot. Hasten maturity, quicken the budding and stiffen the stems. Write for booklet and prices.

Natural Guano Co., 815 River Street, Aurora, Ill.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea:	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

GREENHOUSES BUILDING OR CONTEMPLATED.

Allentown, Pa.—John Sykes, house 30x150

Merriam, Kan.—C. T. Reinhardt, additions.

Middletown, N. Y.—F. X. Dienst, rose house.

Corpus Christi, Tex.—D. E. Curtis, three houses.

Maywood, Ill.—W. H. Amling, range or rose houses.

Putnam, Conn.—C. S. Andem, addition, 200 ft. long.

Westerly, R. I.—Geo. L. Stillman, propagating house.

Nashville, Tenn.—M. H. Skalowski, Church St., range of houses.

HELP WANTED

SUPERINTENDENT WANTED

At once to take charge of a private estate, 90 acres, with conservatories, dairy and chicken departments

Address D. V., Care HORTICULTURE

WANTED—In Worcester County, Mass., a good working foreman, well recommended, American or English preferred; must be a good grower and floral designer and able to handle men to advantage. Apply, stating age, experience and reference, to C. I. A., care HORTICULTURE.

WANTED—Single man for country place from April 15th to November 15th and possibly permanent position. Wages $40 per month, with room and board. Location on car line, 30 minutes from Portland. CARL RUST PARKER, 910 Fidelity Bldg., Portland, Maine.

SITUATIONS WANTED

SITUATION WANTED—As working foreman on commercial place where general line of plants and flowers are grown for retail purposes. Central Massachusetts or Southern New Hampshire preferred. Address "H," care HORTICULTURE.

POSITION WANTED—By experienced rose grower. Massachusetts preferred. Understands general greenhouse crops. Address A, care HORTICULTURE.

SITUATION WANTED—Having had more than twenty years' experience in setting Fruit, Shade and Ornamental Trees, Grading Lawns, care of Shrubs and Flowers, I now wish to communicate with some party needing permanent help in this line. B, care HORTICULTURE.

PEIRCE PAPER FLOWER POT

Superior to ANY OTHER pot for shipping purposes.

Saves weight and space for the shipper.

Best of protection against damage by frost.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY — Long Distance and Trade Export

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

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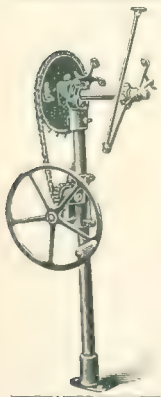
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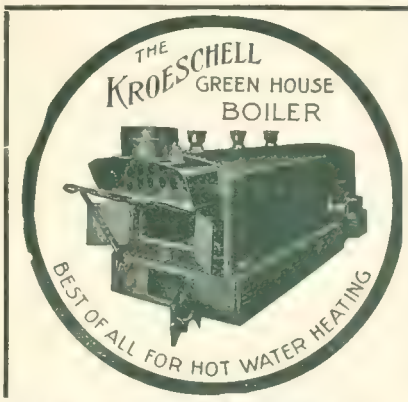
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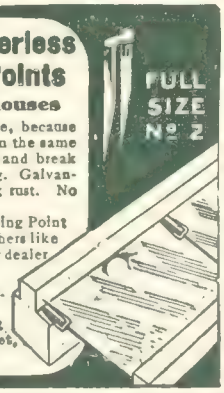
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Vol. XIX
No. 15
APRIL 11,
1914

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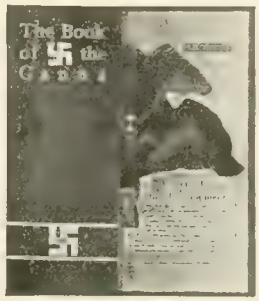
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For 1914

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71 MURRAY STREET, NEW YORK

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY NEW YORK BOTANICAL GARDEN

Care of Seedlings

All seedlings should be looked over at least three times a day to guard against their becoming too dry or too wet, either of which will spell loss. Give careful ventilation in all cases. As soon as any show the character leaf, they should be transplanted into other flats. When pricking out the little plants see that they get plenty of room to grow. Place them well up to the glass so they do not draw up too much. There is plenty of time yet to sow asters, balsams, celosias, coreopsis, marigolds, ricinus, phloxes, scabiosas, tropaeolums, zinnias and many other kinds.

Chrysanthemums

For general stock, chrysanthemums may be propagated at any time up until June, but for the production of high grade flowers and for exhibition plants and blooms early propagation is essential. The earlier rooted cuttings are of little use, however, to the average country florist. Medium flowers net more money than the big ones. People may admire the latter, but they object to paying a price commensurate with their cost. We prefer the cuttings which need no shortening back. Those three or four inches long are about right. It will be necessary to keep the cuttings well soaked for the first two weeks. In bright weather several dampings overhead will be required to keep them plump, and no good grower ever wants to see stock in the cutting bench with a flaggy look. A temperature of 50 degrees is high enough for the cuttings to root in. They should not remain too long in the sand, but be potted off as soon as rooted. Ordinary good soil is all they want at present. The shifting into larger pots should not be delayed too long in the case of exhibition plants.

Alocasias

These tropical plants can be increased either by cuttings of the rhizomes or by suckers. When doing either way they are better when placed in small pots that have been filled with a compost of peat and sand in equal parts. Pack the compost well around these pieces and plunge where they can have plenty of bottom heat. There is nothing better than a closed frame over bottom heat of about 75 degrees. They can be kept in this until they begin to show good roots. In potting up the new made plants they will want plenty of drainage. Give at least one-third of the pot to drainage. Use very fibry loam and fibrous peat in equal parts, with quite a portion of sphagnum moss, some lumps of charcoal and silver sand. Give them plenty of overhead syringing and keep a night temperature of 70 to 75 degrees.

Orchids

Odontoglossums will now need some attention. Remove any of the decayed compost replacing it with some sphagnum and chopped fern fibre. In order to keep the compost sweet this sometimes has to be done twice a year. These orchids do better in a house having a northern aspect. Fresh air should be given at all times when possible. Keep up an abundance of moisture by wetting down the paths and under the benches two or three times a day in fine weather. See that the compost does not become too dry as they like a good supply of water at their roots during the warm weather. We are now coming into the season when the grower has many things to contend with, in order to bring these orchids through the summer in good condition. Give shading just heavy enough to break the direct solar rays. A high degree of moisture should be maintained from this out.

Time to Provide

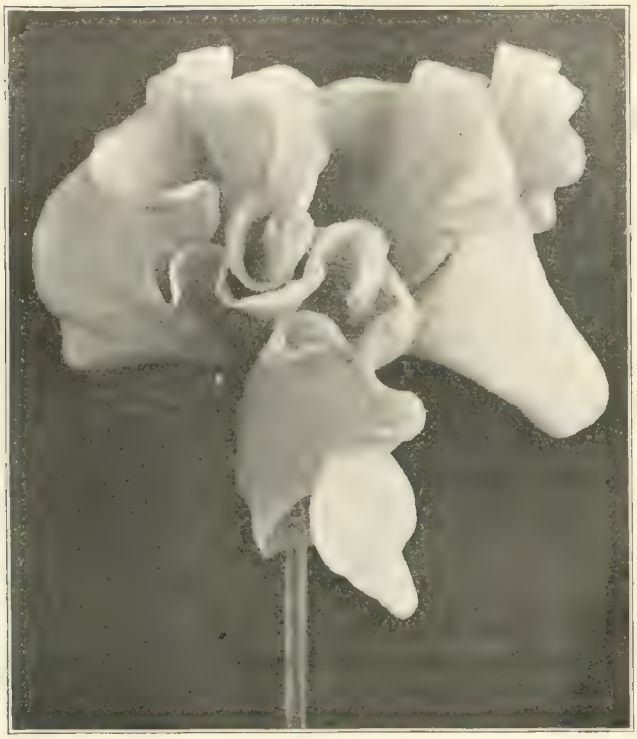
While there is a sufficiency of cut flowers at nearly all times of the year there is one short period when a dearth in cut flowers is keenly felt—from the beginning of June until the latter part of July. It is not unlikely that the general replenishing and replanting of the leading cut flower stock, taking place at that season, may, to some extent, be responsible for the scarcity at a time when June weddings, school commencements and numerous social affairs create quite a demand. Roses and carnations should not all at once be thrown out. Some of the least exhausted and most promising at that time might be allowed to remain in the houses a month or two longer. Of the common flowering plants annual and greenhouse varieties suitable for the purpose, quite a number would thus prove useful.

Young Marguerites

Marguerites intended for next winter's flowering should be pinched back often so they will not become leggy. Planted out after the middle of May they will make fine stock which can be lifted and housed in September. This holds good with white varieties, but the yellow sorts do better when kept in pots during the summer. They are not so liable to go blind when treated this way.

Mr Farrell's next notes will be on the following: Allamandas; Ferns; Ramblers for Easter, 1915; Planting Gladiolus; Sowing Campanulas; Ripening up Freesias.

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A Duplex Flower of Sweet Pea Yarrawa

A Burpee Sensation

The accompanying pictures of one of Burpee's latest sweet pea novelties furnish a striking indication of the present tendency in sweet pea development. The illustrations are considerably reduced from the original photographs, which are life size. According to same the duplex flower shown separately is 3½ inches across and the other picture is reduced to just about one-half size.

The progress which has been made in sweet peas since Burpee and several others began to specialize some twenty years ago is just one uninterrupted floricultural triumph and the end is not yet in sight.



Spray of Winter Fowering Sweet Pea Yarrawa

The Gardeners' Problem

The executive committee of the National Association of Gardeners held their quarterly meeting here in Philadelphia on the 7th inst. The secretary usually sends you an official report, so what I have to say is only by way of comment and not of narrative. The burning question seems to be how to get away from the fifty dollars a month salary limit. There is no getting away from it so long as people of wealth are willing to hire a laborer who calls himself a gardener, at that price. The remedy to my mind is to start a campaign of education among the people who are wealthy enough to hire a real gardener and show them by facts, figures and statistics that they are losing money by not doing so. A good gardener is worth anywhere from one hundred dollars up—just by the same process of reasoning as one would employ in hiring a lawyer or a doctor. The larger the estate the more the responsibility. The larger the responsibility the higher the salary. If a good man is squeezed down to taking less than he is worth, the greater the temptation to make something on the side. If a poor man—that is, an ignorant man willing to take laborers' wages, is hired, then the estate will suffer not only in that but in many other ways. So that it is the employing class that the campaign of education must be aimed at. It will do no good to scold the seedsmen or other allied interests; nor to split the ceiling in gardeners' meetings about the villany of those fifty-dollar fellows calling themselves gardeners. One hundred should be the minimum, and two hundred, three hundred, five hundred, or even more should not be considered anything out of the way if the training, experience and native ability be present. But the employers have to be educated up to that. There is where the legitimate work of the N. A. G. really comes in.

George C. Watson.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Disbudding

This is one of the operations in rose growing that should receive attention at all times. Certain days should be put aside for this work each week, and then let the men attend to it no matter what else may require attention. Twice a week will do the trick and if the houses are gone over regularly, there will never be five or six buds on a stem. These side shoots only take up a good deal of the strength of the plant and then they do not amount to anything at all. Remove all the side buds, except those that are on a very strong bottom break, and here it will pay to leave one or two of the uppermost shoots and then wait to see if the main bud will come good. A great many times these buds will come deformed, and if the side buds are allowed to come on, the main bud can be removed as soon as it can be determined whether it will come good or not, and if it should come deformed, then one of the side shoots will no doubt form a good bud, thus saving the big shoot and stem that would otherwise be wasted.

Cutting

By this time it can be known just which of the houses can be emptied first, and in these houses it will pay to cut all the roses away down to the hard wood, thus gaining an inch or two on every stem, and making No. 1's out of a good many No. 2's. This gain may seem so trifling that many will not wish to bother with it at all, but it will be surprising to know the increase in the longer grades of stock, more so if the houses are cutting a large amount of short stuff. As the warm weather will come on now, see that the buds are cut tight enough, although it must not be carried too far, for there is such a thing as cutting too tight.

Mulching

Where the roses are growing freely, they should never be allowed to suffer from want of mulching. Where liquid manure is applied very freely, this mulch should consist merely of good coarse sod broken into lumps about the size of an egg, with a little manure mixed through it. This applied to the benches will give the roots all the necessary protection that they need, and at the same time will help to hold the water just where it is placed, keeping it from running all over the benches. This is very important, for unless there is something to hold the water it will run over the benches so that instead of the soil being the same all through, it will be too wet in places and in others too dry.

Lime

Where the houses have not been mulched recently, it will be advisable to use a little lime on the benches, specially if they have not had any for a while. This will help harden the plants, so that they will not be so very likely to get a dose of mildew so common among the roses in the spring of the year. Do not apply too much of it all at once; preferably a light dose, and apply another in two weeks' time. Fresh air-slacked lime should be used for this purpose, as often the lime sold as agricultural lime is only ground up limestone. This is very slow in action, and is not as effective as the air-slacked lime.

Fumigating

Never for one week neglect to fumigate the houses, the last thing at night, with a good syringing the day following. Mr. Greenfly will be right there with all the millions of his cousins if he is given half of a chance. Keep him out, for if you do not he will in time make you get out, or else cut into your profits so that you will wonder what is the matter with the rose business. The cost of living is high enough without taking several hundred thousand boarders that never pay and are only pests—parasites. Keep them out—they only appear through carelessness or worse.

Paint

Right now is the time to think of the paint and putty that you will need next summer. Do not let this go, but order your supply at once while the leaks, cracks and so on in the houses are fresh in the mind. If we let this go for a while, dry weather will come, and then the houses will not leak, or show signs of doing so, and the chances are that they will be allowed to go unpainted another year. It is poor economy indeed to let the houses go, as they will need rebuilding soon if they are not looked after.

Building

There is often a question of doing it yourself and saving money, but as with many others, there are two sides to this. See if you have the men that will keep your place running full, without the least neglect anywhere, and, if you can then build yourself, then do so. It is a poor saving to neglect half the place to save a few dollars in building. The loss is often much greater than whatever was saved and often the work is not done half so well as if the greenhouse builders were at it themselves. They have men well versed in all the different branches and they know just what to do and when to do it. Think the matter over well before deciding.

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Horticulture

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HORTICULTURE

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Easter

On the eve of the great floral feast day—the happy culmination of the florists' long winter toil, HORTICULTURE extends to one and all kindly greetings and sincere good wishes for a successful and happy Easter and a bountiful measure of the blessings which this joyous season symbolizes.

Money well used

All honor to the Brooklyn lady who has bequeathed the sum of $10,500 to keep the church pulpit supplied with flowers. The world is made up of all kinds of people and they have varying convictions as to how money—their own or their neighbor's—should be disposed of. For our part we have nothing but commendation for any act which brings plants, trees and flowers to the people in increasing quantity, and only the opposite sentiments for any attempt to limit or curtail the use of these things, which are nature's most potent humanizing agencies.

"To me the meanest flower that blows can give
Thoughts that do often lie too deep for tears."

To quote a certain popular official of the S. A. F., one eminent in debate—"I'll rest my case there."

The Convention and the Garden

The Convention Garden plans which we present in this issue will, no doubt, be perused with much interest, as evidence that this feature so auspiciously inaugurated in Minneapolis last year will again form a prime attraction of the summer convention of the Society of American Florists. As an educational exponent of the most advanced horticultural art this Convention Garden will certainly take high rank and its influence, locally as well as over the larger field, cannot be overestimated. Its direct service to the convention visitors will largely be condensed into the space of a few days but Boston and her thousands of summer visitors will enjoy it in all its glory for many weeks and who can measure the extent of its salutary influence or the material gain which will come to commercial horticulture in a broad way and as a direct consequence. The visit of the S. A. F. brought to Minneapolis much of lasting value. It will do the same for Boston. No matter how lavishly Boston may prepare for the reception and entertainment of the two thousand or more visitors who are expected next August the balance of indebtedness for benefits gained will be on the side of the city. That much we are sure of.

A questionable policy

The condensed report of Secretary Young on the work of the S. A. F. Executive Board at its meeting in Boston, which we are privileged to present in this issue, will be found interesting as a concise summary of the deliberations of the Board. It shows that the responsibilities of these officers of the Society are becoming more and more numerous, demanding increasingly serious consideration and involving the adjudication of many knotty problems. We are disappointed, however, that these diligent gentlemen, so wise in all other respects, should have deemed it advisable to permit any one hotel—however palatial and sumptuous—to use the special title of "headquarters," in a city so well supplied with good hotels and for a Convention so large in numbers that probably not one-fifth of those in attendance can be accommodated at "headquarters." For a period of some eighteen years the S. A. F. invariably announced its official headquarters as at its convention hall and to the general satisfaction of the members, the Executive Committee always deeming it inexpedient to accord special privilege to any one hotel and discreetly steering clear of this mischief-breeding practice which may be all right for a society of one or two hundred members but in an organization as large as the S. A. F. is prolific in discontent for those who fail to secure accommodations in the privileged house and more or less discomfort for those who do manage to get in.

A PROMISING SEEDLING CARNATION.

The cut shows Frank Dinda, of Farmingdale, Long Island, N. Y., with an armful of his sensational white carnation, a cross between Prosperity and Enchantress, which he has been grow-



ing for the past five years and which will be introduced probably next season. This seedling took second prize for vase of 100 white, Matchless winning 1st. Every bloom exhibited measured four inches or over, and its wonderful keeping qualities were well shown by the fine condition of the blooms at the close of the show. Mr. Dinda is building a new range exclusively for this carnation, King construction and Kroeschell boiler and piping system. The accompanying picture was badly focussed, but it suffices to show the remarkable size of the blooms.

MUSHROOMS IN CELLAR.

I wish to ask a question in regard to growing mushrooms in a cellar. I have a box in the cellar where the temperature has been all along very close to 70 degrees, that is, when I put the thermometer under the cover on top of the box, which is a cover fixed up of paper. I planted the spawn the first of February, had straw placed over it until I noticed the shoots coming up through the soil. Now the surface of the loam, in the box, is all over with white shoots just long and thin like a bud, but a few days ago I got two good big mushrooms from it and not one since. I watered it when it began to look dry and have taken good care of it. I placed about eight inches of horse manure, well turned over, in the bottom of this box, damped it well, did all things according to directions and now I'd like to know if I ought to have good mushrooms by this time.

Hoping you will give me your opinion on same, I am,

Yours truly,

Campello, Mass. P. A. McC.

Mushrooms are such a precarious and uncertain crop that it would be impossible to say, unless one saw the conditions, why more of the fungi have not appeared. You should be cutting mushrooms now, if as you say, the bed has spawned on the first of February; but it very often happens that even when all the requirements are followed carefully the bed is a failure. Temperature and the atmospheric conditions are two matters of great importance, and we think a temperature of 70° considerably higher than is desirable. A moist atmosphere and a temperature of 55° would be much more suitable.

A FLOWER SHOW QUESTION.

Editor of HORTICULTURE:

Dear Sir: It seems to me that some methods should be devised whereby the bona fide gardener would be able to obtain admittance to all flower shows without being compelled to pay for every time he re-enters, and to be able to enter without temptation to subterfuge to escape payment. In discussing this matter with several gardeners who attended the New York show one told me that he had paid no less than eight times to get into the show, and another that he had gone in a backway and escaped payment altogether. Surely both methods are entirely unnecessary and I would suggest that for the gardener who travels from a distance and intends to make the show his headquarters for appointments during the week or for the duration of the show, a lump sum might be paid to cover that period.

A strange fact in regard to many of the wholesale exhibitors of plants was that they had not a representative to explain their exhibit to the public, with only a few exceptions, and apparently these booked many orders. I think the sundriesmen, in every case, had an attendant, but not so the plantsmen.

VERNON T. SHERWOOD.

Charlestown, N. H.

OH, EVER'THING'S A-GOIN'.

When ever'thing's a-goin' like she's got a-goin', now—
The maple sap a-drippin', and the buds on ever' bough
A-sort o' reachin' up-ards all a-trimblin', ever' one,
Like 'bout a million brownie fists a-shakin' at the sun,
The children want their shoes off 'fore their breakfast, and the spring
Is here so good and plenty that the old hen has to sing!
When things is goin' this a-way, w'y, that's the sign, you know,
That ever'thing's a-goin' like we like to see her go!

Oh, ever'thing's a-goin' like we like to see her go!
Old winter's up and dusted, with his dratted frost and snow.
The ice is out o' the crick ag'in, the freeze is out the ground,
And you'll see faces thawin', too, ef you'll jes' look around—
The bluebird landin' home ag'in, and glad to git the chance,
'Cause here's where he belongs at; that's a settled circumstance.
And him and Mr. Robin now's a chunin' fer the show.
Oh, ever'thing's a-goin' like we like to see her go!

The sun ain't jes' p'tendin' now—the ba'm is in the breeze—
The trees 'll soon be green as grass, and grass as green as trees.
The buds is all jes' eechin', and the dogwood down the run
Is bound to bust out laughin' 'fore another week is done.
The bees is wakin', gapy-like, and rumblin' fer their buzz,
A-thinkin', ever wakefuler, of other days that wuz—
When all the land was orchard blooms and clover, don't you know.
Oh, ever'thin's a-goin' like we like to see her go!

—James Whitcomb Riley.

ACACIA PUBESCENS MEETS ITS MASTER.

Acacia pubescens is notoriously a bad propagator. But was there ever a problem in propagation too hard for Jackson Dawson? In this picture we have this invincible veteran plant



propagator standing alongside of three plants of Acacia pubescens which were grafted one year ago last July. Notice the height. Can you beat it?

HARDY DWARF-GROWING EVERGREENS.

Will any reader of HORTICULTURE name six varieties of evergreens not over four or five feet at maturity which are perfectly hardy in this section?

Is there any reason why evergreens should not be planted on the south side of a residence?

Swampscott, Mass. A. B.

Replying to the foregoing inquiry regarding evergreens, we would say, that we find evergreens when well established generally withstand drought or heat better than deciduous trees or shrubs. They, therefore, and particularly the dwarfer varieties, are very useful for planting on the south side and close to a building where on account of heat and scarcity of moisture shrubs of many kinds would not succeed. The following named varieties of evergreens are very hardy and are dwarf and can be used in grouping to good advantage.

Juniperus Chinensis argentea, J. Japonica aurea, J. sabina, J. tamaricifolia, J. Pfitzeriana.

Picea Gregoriana, P. pumila, P. pygmea.

Pinus mughus.

Taxus cuspidata, T. c. brevifolia.

Thuya globosa, T. Hoveyi, T. minima.

JOHN KIRST

Bedford, Mass.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Directors' Meeting.

The annual meeting of the Board of Directors of the Society of American Florists and Ornamental Horticulturists was held at the Parker House, Boston, Mass., March 17th and 18th, 1914. Present: President Theodore Wirth, Vice-President Patrick Welch, Secretary John Young, Treasurer Wm. F. Kasting, ex-President John K. M. L. Farquhar; directors, Charles H. Totty, John A. Evans, August Poehlmann, Thomas Roland, J. A. Peterson and J. J. Hess, also W. F. Gude, the Washington representative, and George Asmus, chairman of the National Flower Show Committee.

Mr. Farquhar and the Boston members of the Board had made every arrangement in advance, so that the work of the Board was transacted without any delays or intermissions. Luncheon and dinner had been provided for in an adjoining room, so no time was lost in journeying to places of refreshment and the meetings of the Board were practically continuous. The local members reported in detail as to the progress already made toward carrying out the details of the convention, and that for the Outdoor Planting Exhibition a plot of ground containing about ten acres in the Back Bay section had been obtained and was being prepared and laid out for the use of the society.

It was decided that the Outdoor Planting Exhibition should be known hereafter as the "Convention Garden." It was decided that details connected therewith be left in the hands of the local committee. The prices to be charged for space are to be not less than 5 cents per square foot and not to exceed 10 cents per square foot; as this plot of ground is in the Park Department a charge for rental could not be made, and the 5 to 10 cents per square foot will be charged for the care and maintenance of the exhibit; carrying out the arrangement made with the authorities of Boston. It was necessary that the sum of $1,500 be deposited with the Treasurer of the City of Boston, to assure the city against any losses which might occur. Any profits that may be derived from the Convention Garden will be turned into the treasury of the society.

Awards for the exhibits in the Convention Garden will be in the form of medals, certificates, or diplomas; there will be no money prizes. Allotment of space and the management of the Convention Garden will be under the supervision of the Advisory Committee, but under the direct management of James B. Shea, Deputy Commissioner of Parks. The President is authorized to appoint five judges for the Convention Garden.

Mechanics Building was selected as the place in which to hold the indoor trade exhibition. In this building there will be 40,000 square feet of available space. The rules governing same and the prices for space are to be the same as charged at the convention held in Minneapolis. The rule regarding signs was amended so that the official sign should not cost more than $3.00.

A preliminary programme was presented by the committee appointed for the purpose, and the completion of same was left to the President, Vice-President and Secretary. It was decided to have a three-day business convention, the fourth day being set aside for entertainment.

Messrs. Roland, Farquhar and Hess were appointed a committee to consider the proper standardization of flower pots. This committee is to report at the meeting of the Board of Directors to be held in Boston before the next convention.

It was recommended that the society join the L'Union Horticol Professionelle International, the fee for same being $10.00.

It was decided that the Hotel Copley-Plaza be selected as headquarters for the society during the time of the convention. The local committee will publish in the trade papers a list of all the other hotels, and rates, at a later date. Appropriations were made for different purposes for carrying on the work of the society, for the present year.

President Wirth appointed Charles E. Critchell as chairman of the Committee on Sports.

The Secretary's and Treasurer's reports were referred to an Auditing Committee and found to be correct. These reports had previously been audited by a firm of certified public accountants in Buffalo. The action of the treasurer in depositing the funds of the society in the different banks mentioned in his report was approved.

The question of "Affiliation" was given careful consideration by the meeting, and George Asmus, W. F. Kasting, and J. J. Hess were appointed a committee to devise plans for affiliation; such plans could then be presented to the different organizations stating what the society would be willing to do towards bringing about affiliation. This committee is to report at the meeting of the Board previous to the convention, mileage to be allowed the members of this committee for one meeting only in a central city.

George Asmus gave a detailed report of the progress on the work being done towards the next National Flower Show, to be held in Philadelphia, in 1916, and states that he and the other members of the committee were on their way to Philadelphia to inspect the building where the next National Flower Show will be held.

It was decided that the public should not be admitted to the indoor Trade Exhibition which is to be held at the Mechanics Building at the time of the convention.

Mr. Gude presented final resolutions as offered by his committee.

JOHN YOUNG, Secretary.

FLORISTS' CLUB OF PHILADELPHIA.

Professor Nissly, from State College was the attraction at the monthly meeting of the Florists' Club on the 7th inst. He was scientifically all to the good; but the Florists' Club is a different proposition from Susquehanna County. Many of the members at the wind-up seemed to think that the "two-O-four" for cow fertilizer was a good idea—if they only could get it. One member said he had a few carloads for three dollars and was instantly besieged! So the price went up, until the professor's dictum seemed to be a joke. The chemical composition of the hog and the hen product were lauded to the skies by the professor, but the flower growers seemed to feel they had gone through that long ago—and still stood by the good old cow—no matter what Ohio College had to say. We feel that this experience must be a very refreshing and illuminating one for State College, and look for great results in their further teachings. If they will keep near to the big growers of Philadelphia they will come pretty near to giving a few pointers to the rest of the country. And even they (the big growers) don't know such a terrible lot. Said the professor: "If you see sorrel in a field, it needs lime." Why? He didn't know—he took the word of the plant for it! That's how far science has advanced. But I knew that when I was a kid forty years ago cutting tansys on the pasture as a penalty for being fresh to people older than myself. The moral of all this is: Don't get the big head merely because you are from a college. It's the iconoclasts who really find out things in the long run. Keep tabs for yourself. G. C. W.

AMERICAN ROSE SOCIETY.

The Hubbard Medal.

At the Rose Exhibition of last week the matter of awarding the Hubbard medal was an important feature that was omitted, for the reason that it was felt to be something that no one wanted to make a mistake about.

The plan was for the Executive Committee and the Judges to have decided upon this on Monday the 23rd. At that time a free discussion occurred as well as could be, and a committee of three were appointed to submit a list of eligible roses that had been introduced within the last five years. This was done on Thursday afternoon, the 28th, and fairly gone over. In the mean time one and another had been interviewed upon the subject and all felt that the awarding of the medal carried with it a great deal of weight, that we had two distinct classes of roses—the climbing and the bush rose, also the special greenhouse varieties. A vote was taken in which Excelsa and Radiance, representing two classes of roses were voted upon, and the vote was a tie. The two classes being so different it was not felt that they really could be judged one against the other, so a

proposition was made to put up a second gold medal of equal value to the Hubbard medal so the two classes could be recognized. This met with general favor, but no decision was arrived at, and it was deferred until a later meeting of the Executive Committee, while in the meantime we should endeavor to obtain the opinion of some of the best informed people upon the subject.

BENJ. HAMMOND, Secy.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the regular monthly meeting of the New Bedford, Mass., Horticultural Society, held in Library Hall on Monday evening, April 6, after a short business session those present listened to a very pleasing and instructive talk on gladioli by B. Hammond Tracy of Wenham. Mr. Tracy not only held his audience with his descriptions of methods employed in production of flowers, exhibiting and arranging for home decoration, but also created considerable enthusiasm along this line which will doubtless help materially in bringing the gladioli to the front in our September exhibition. Three new members were elected.

W. F. TURNER.

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COLEUS, Golden Bedder and Verschaffeltii or mixed R. C., 60c. per 100; $5.00 per 1000.
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FUCHSIAS, 2¼ in. pot, $1.75 per 100; $15.00 per 1000.
FEVERFEW, Little Gem, $2.00 per 100.
VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.
AGERATUM, 2¼ in. pot, $1.50 per 100; $12.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.
ASPARAGUS PLUMOSUS, 4 in. pot, $6.00 per 100 strong.
DRACAENA INDIVISA, 4 in. pot, $8.00 per 100.
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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.
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$3.00 per 100; $20.00 per 1000.
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Partial View of Carnation Section—New York Show

TUXEDO (N. Y.) HORTICULTURAL SOCIETY.

At the regular monthly meeting on April 1, Murice Fuld gave a very instructive and interesting lecture On The Progressive Age, as applied to Horticulture. We hope to have Mr. Fuld again on some future occasion. He also staged from Knight & Struck Co., a vase of 15 varieties of "Dutch" Iris and advised as to their qualities for forcing. The judges awarded a certificate of merit. The executive committee reported the schedule of the fall show in progress, also the entertainment committee reported that arrangements had been made for the Ladies' evening, which is to be held on April 16. This is the first evening of its kind the society has ever held and all are anxious to make it a good time for the ladies.

Thos. Wilson, Secy.



Partial View of Group of Conifers by Bobbink & Atkins—New York Show

CLUB AND SOCIETY NOTES.

The Cincinnati Florists' Club will hold its regular meeting on next Monday, April 13. A large attendance is expected.

Due to its nearness to the Easter rush, the regular monthly meeting of the Florists' Club of Washington, scheduled for Tuesday evening last, was postponed and the florists will not again get together until April 21, when some very important business will be brought up for their attention.

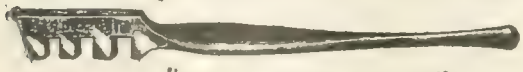
A new horticultural society has been organized jointly by Auburn and Lewiston, Me., and C. A. Allen was chosen as its first president at an enthusiastic meeting held in the municipal court room in Auburn on March 30. The object of the society, as announced, is to inculcate the love of flowers and encourage their planting.

The discussion committee of the North Shore Horticultural Society announce the following meetings, at Manchester, Mass.:

April 17, Prof. A. Vincent Osmun of Massachusetts Agricultural College, will give a practical talk on "Fungus, Rusts, Blights, etc." He will devote part of the time to a description of the life history of fungus and other low orders of plants as compared to the higher or flowering plants.

May 1, Mr. Allan Peabody will give a talk on his recent trip to Porto Rico. Mr. Peabody has no doubt made some interesting observations of things relating to horticulture and kindred interests.

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ROSES, PALMS,

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Poinsettia Pulcherrima

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Newer and choicer vars. (Alportii, etc.)	20.00

Also many other important Ground-Covers, such as

Pachistima Canbyi	20.00
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Parcel Post Popular.

The mail order houses, and in fact the seed trade as a whole, appear to be much gratified by the ruling of the Post Office Department allowing the sending of seeds, bulbs, etc., by parcel post. Why this was not permitted at the introduction of the system, not even the post office officials themselves are able to explain. It simply illustrates the truth of the theory of evolution—they have simply grown to it.

Dull Business.

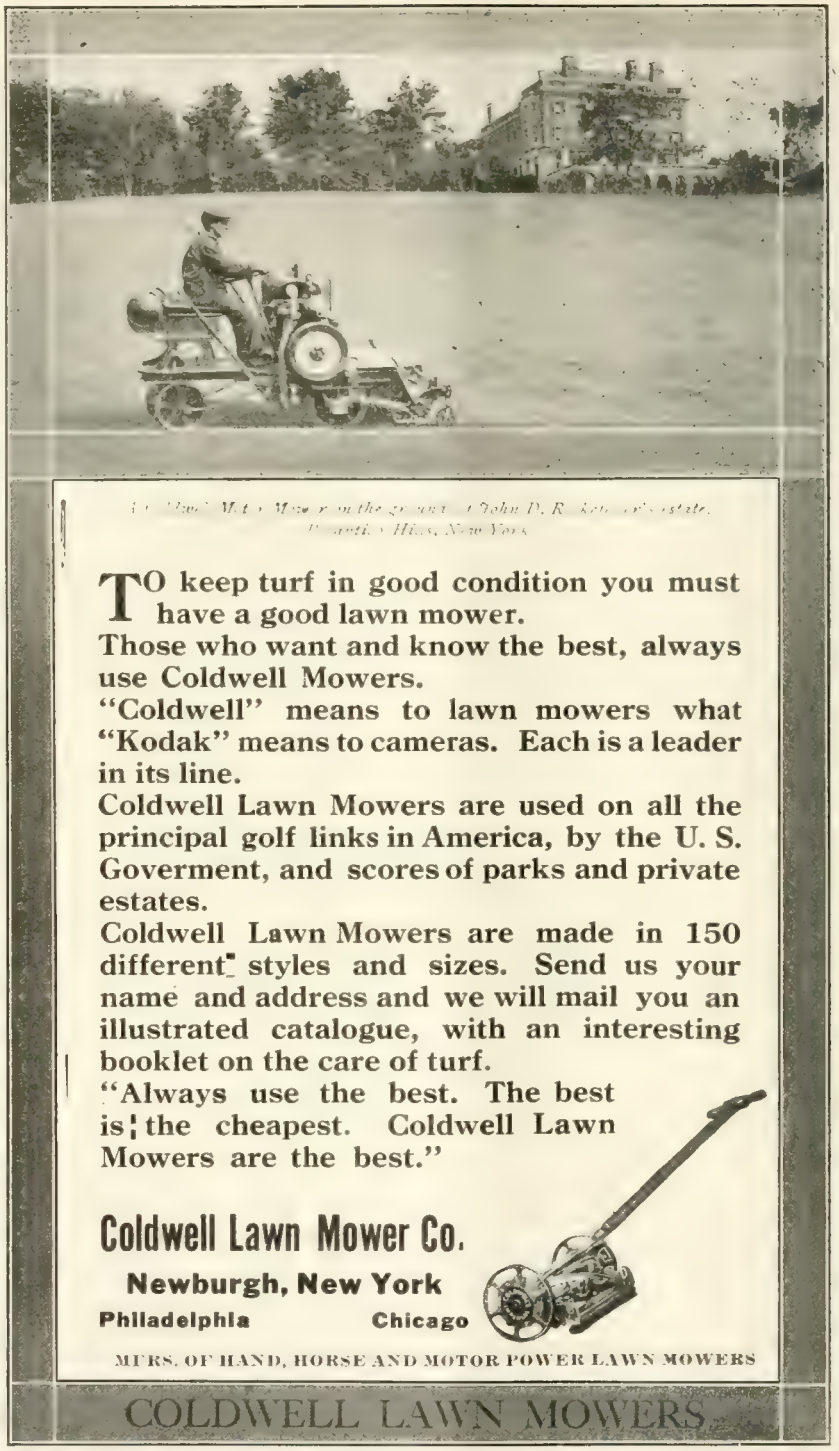
Local trade from Chicago eastward is and has been very bad, which is largely chargeable to the weather. What share is due to the general business depression can only be surmised. A number of seed houses having a very large trade with private estates report a considerable falling off in business from old customers, and say that the new ones are just about keeping the volume of business on a level with last year. It is quite possible that after the spring really opens conditions may very materially improve. Let us hope so!

Panama-Pacific Opening.

An item from Geo. Hough Perry, taking exception to statements made in this paper expressing doubts about the Panama-Pacific Exposition opening on time, is worthy of attention. There is no disposition on the part of this paper to damage in any way the prospects of the Exposition or to find fault with the management. They simply were influenced by experience, and that experience is that not a single international exposition has been ready on time. To be sure, the opening has taken place on schedule, but in many instances the buildings and grounds were not complete, and the exhibits were not in place for many weeks after the formal opening. If our San Francisco friends can establish a new record, we shall be among the first to congratulate them, and in the meantime will accept their word for it and wish them every success.

Mild Winter in 'Northwest.

We have learned that the past winter has been an exceedingly mild one in the far Northwest, particularly in Montana and Idaho. It is reported that the snowfall has been the lightest in twenty years, and as their water supply for irrigation purposes is largely derived from the melting snows in the mountains, many old-timers are fearful of a water famine this coming summer, and consequently a very serious shortage in crops. We are advised that they are having an unusually early spring, and that grain and other seeds are being planted at this early date. The ranchers are evidently eager to get full benefit of the spring moisture which it is hoped will carry the crops along so far that they may be able to tide over the much-feared drought which is liable to come during June and July. Should the present fears materialize those who are carrying stocks of garden seeds may find that they have money at interest, as, despite the pretty general impression that peas are in great surplus, we do not believe there is anywhere near enough to meet another year's requirements, and that a fair crop the coming summer would be readily absorbed both by the seed trade and the canners.



Next Canners' Convention.

We are advised that a meeting of the Committee on Location to decide the place for holding the next Canners' Convention is to be held in the very near future, and we may be able to announce the decision of this Committee in our next issue. We understand California and San Francisco have a strong lead, though this does not necessarily imply that the convention must go there.

Forging to the Front.

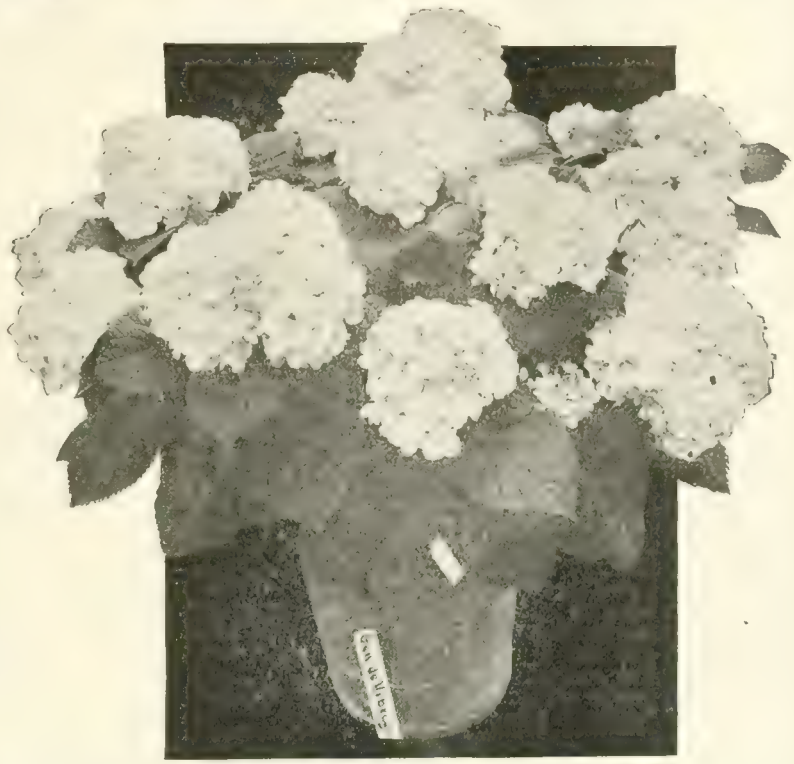
Among the mail order houses which are forging to the front we may mention the Joseph Harris Co. of Coldwater, N. Y. This concern in a quiet way and without any fireworks has continued to grow until it can now be readily figured among the large mail order seed houses of the country. This success is mainly due to the able man-

"GET THEM AT DREER'S"

The New French Hydrangeas

For Memorial Day

We can still furnish plants, now stored in cold frames and which, if given geranium house conditions, will flower fine for Decoration Day. At the prices we quote you will find them a profitable investment. We particularly recommend the 6 inch and 7-inch pot stock.



AVALANCHE. A splendid, large, white with a well established reputation; an easy variety to force.

BOTANISTE PELTEREAU. Enormous flowers of a pretty mauve rose.

BOUQUET ROSE. Large trusses of rosy amber, turning to bright pink; a favorite with all growers.

DENTELLE. Entirely distinct, deeply fringed flower of a creamy-white color; it is not suited for forcing; but for Decoration Day and later flowering it is very valuable.

E. G. HILL. This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size; color a most pleasing shade of pink which does not fade; growth vigorous, foliage of a pea-green color large and attractive. It is one of the easiest to force, coming into flower as early as Mme. Emile Mouillere.

FRAICHEUR. Very large, regularly shaped flowers, white, delicately suffused with rose; very free flowering.

GENERAL DE VIBRAYE. A favorite wherever seen; very large heads of bright rose-colored flowers; a splendid early forcing variety.

LA LORRAINE. Very large flowers, pale rose, turning to bright pink; has become a general favorite.

MME. A. RIVERAIN. Superb bright rose color; very vigorous and floriferous.

MME. E. MOUILLERE. Probably the most popular white variety on the market to day; an early, easy variety to force.

MME. MAURICE HAMAR. A delicate flesh-rose color. A vigorous grower, the individual flowers as well as the trusses being very large. One of the easist to force early.

MME. RAYMOND. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose.

MLLE. AGNES BARILLET. A splendid white; flowers large and very freely produced.

MLLE. DE TREMAULT. As the result of our own trials, we are convinced that this variety is the best very large-flowered white yet introduced. As free flowering as any, of splendid, erect habit, producing flower heads as large as the old popular Otaksa.

MLLE. RENEE GAILLARD. Very large panicles of milky white, irregularly dentated flowers.

MOUSSELINE. A beautiful mauve rose, with cream-colored center; the flower heads are large and held erect; a fine acquisition.

MONT ROSE. Immense panicles of clear flesh rose, entirely distinct. One of the best very early-flowering varieties.

MONS. G. RENAULT. Very large flowers of a bright rose, with carmine reflex; very free and easily forced.

ORNEMENT. Large, pretty mauve-pink flowers; very free flowering.

RADIANT. At the International Show in New York last spring, Radiant was the one variety which attracted much attention. It is an easy variety to force, of a splendid, rich, live rose carmine, entirely distinct from all others.

RONSARD. Flowers and trusses very large, of a beautiful rose tint.

SOUVENIR DE MME. E. CHAUTARD. One of the very best, of splendid, erect habit, very robust, medium-sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type.

SENATEUR HENRI DAVID. Another splendid rose-colored variety, with red reflections, flowers produced in immense large heads; on the style of La Lorraine, but an earlier bloomer.

Price of New French Hydrangeas

	3-in. pots		5-in. pots		6-in. pots		7-in. pots
	Doz.	100	Doz.	100	Doz.	100	Each
Avalanche	....	....	$2.50	$20.00	$4.00	$30.00	$0.50
Botaniste Peltereau	....	....	2.50	20.00	4.00	30.00	.50
Bouquet Rose	$1.00	$7.00	2.50	20.00	4.00	30.00	...
Dentelle	....	....	2.50	20.00	4.00	30.00	.50
E. G. Hill	2.50	20.00	4.00	30.00	....	....	...
Fraicheur	....	....	2.50	20.00	4.00	30.00	.50
General de Vibraye	1.25	8.00	2.50	20.00	....	....	...
La Lorraine	1.25	8.00	2.50	20.00	....	....	.50
Mme. A. Riverain	....	....	2.50	20.00	4.00	30.00	...
Mme. E. Mouillere	1.25	8.00	2.50	20.00	4.00	30.00	...
Mme. Maurice Hamar	1.00	7.00	2.50	20.00	4.00	30.00	...
Mme. Raymond	....	....	2.50	20.00	4.00	30.00	.50
Mlle. Agnes Barillet	....	....	2.50	20.00	4.00	30.00	$0.50
Mlle. de Tremault	....	....	2.50	20.00	4.00	30.00	.50
Mlle. Renee Gaillard	$1.00	$7.00	2.50	20.00	4.00	30.00	.50
Mons. G. Renault	1.25	8.00	2.50	20.00	....	....	.50
Mont Rose	1.00	7.00	2.50	20.00	4.00	30.00	.50
Mousseline	1.00	7.00	2.50	20.00	....	....	...
Ornement	....	....	2.50	20.00	....	....	.50
Radiant	2.50	20.00	....	....	....	....	...
Ronsard	....	....	2.50	20.00	4.00	30.00	.50
Senateur Henri David	1.00	7.00	2.50	20.00	4.00	30.00	.50
Souv. de Mme. E. Chautard	1.00	7.00	2.50	20.00	4.00	30.00	.50

The prices quoted above are intended for the trade only.

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agement of S. M. Harris and a younger but very brilliant sister, who has elected to remain with him and assist in the building up of their business. Those who have had dealings with this company have only words of warm praise for them.

Another concern which is worthy of passing mention is the F. A. Sherman Co., Albany, N. Y. Mr. Sherman was for many years the senior partner in the firm of Sherman & Eberle. Some five years ago Mr. Eberle bought out Mr. Sherman and for about two years the latter was out of the seed business; then he began again and his success must be most gratifying to him, and, we may add, very deserving.

Free Seeds According to the Waterbury Idea.

These are the days when the constituent at home is reminded that he has a representative of his interests as a citizen at the seat of government in Washington. There is no doubt about it, for has he not been sent several packages of seeds,—flower, vegetable and fruit? There are many who receive the seeds and throw them on a shelf to be forgotten. Many others have found them worth while experimenting with and not a few in all communities have succeeded in making attractive flower gardens or vegetable gardens without going to any expense except the investment of a little time for planting and for attending the plants from time to time during the growing season.

More should make use of the free seeds which are so generously passed around by the members of congress. The government asks only that those who do plant government seeds will take the trouble to send in a report on their success with the seeds used and their theories as to the reasons for the success or failure of their particular experiments. There is no real obligation to do this, but some valuable information as to soil conditions and local problems in agriculture has been gathered from contributions of persons who have experimented with government seeds.—*Waterbury (Conn.) Republican.*

Free Seeds—Another View.

I have been watching very closely what you say about the free seed business. I know that Mr. Ashbrook, M. C., of our old district, is sending free seeds to farmers in the new district of which he will be a resident. I also noticed a news item in a daily paper that free seeds were coming to Findlay, O., by the wagon-load from two opposing statesmen.

Why would it not be a good idea to try to find out the total cost of the free seed distribution from the time it is brought up in Congress until they are delivered by the rural carrier, then all farm papers print the names of members of Congress who vote for free seeds, and dub them the "free seed pork barrel statesmen?" Also the grangers and other farm organizations should resolve to work and vote against any member of Congress who persists in distributing free seeds at public expense.—"*A Farmer*," *in 'Nat'l Stockman and Farmer.'*

Wayne County, O.

Imported Red Clover Seed.

The seed importation act of August 24, 1912, does not directly prohibit the importation of seeds on account of low vitality. It does, however, prohibit the importation of those seeds mentioned in the act when they contain 3 per cent. or more of weed seeds. As red clover seed, which germinates poorly, usually contains more than 3 per cent. of weed seeds the enforcement of the act has resulted in keeping red clover seed of low vitality out of the country.

During the last four months 101 lots of red clover seed, aggregating over 3½ million pounds, have been imported into the United States. Germination tests of this seed made by the seed laboratory of the United States Department of Agriculture show an average of 97 per cent. of live seed, the poorest lot containing 89 per cent. This is in marked contrast to the condition which existed in 1906. One million pounds of the red clover seed imported that year germinated less than 59 per cent.

Chicago Seed Notes.

The Leonard Seed Co. report onion sets are practically cleaned up. Had the weather been warmer the shortage would have been more keenly felt and even at this late day there are probabilities that there will be a large demand for sets that will go unfilled, when spring opens in earnest. All important varieties of cabbage seeds are scarce, owing to the heavy demand. Last year the amount of cabbages grown was insufficient and market gardeners are seeing to it, that this mistake is not repeated this year. They also note a shortage in the common varieties of flower seeds as four o'clocks, etc. Continued damp weather has made sales of lawn grass seed particularly good.

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Rose Pink	.20	.75
Light Blue	.20	.75
Dark Blue	.20	.75
Crimson	.20	.75
Choice mixed	.20	.65

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Rose Pink	.30	1.00
Purple	.30	1.00
Crimson	.30	1.00
Choice mixed	.30	1.00

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Crimson	.30	1.50
Lavender	.30	1.50
Rose Pink	.30	1.50
White	.30	1.50
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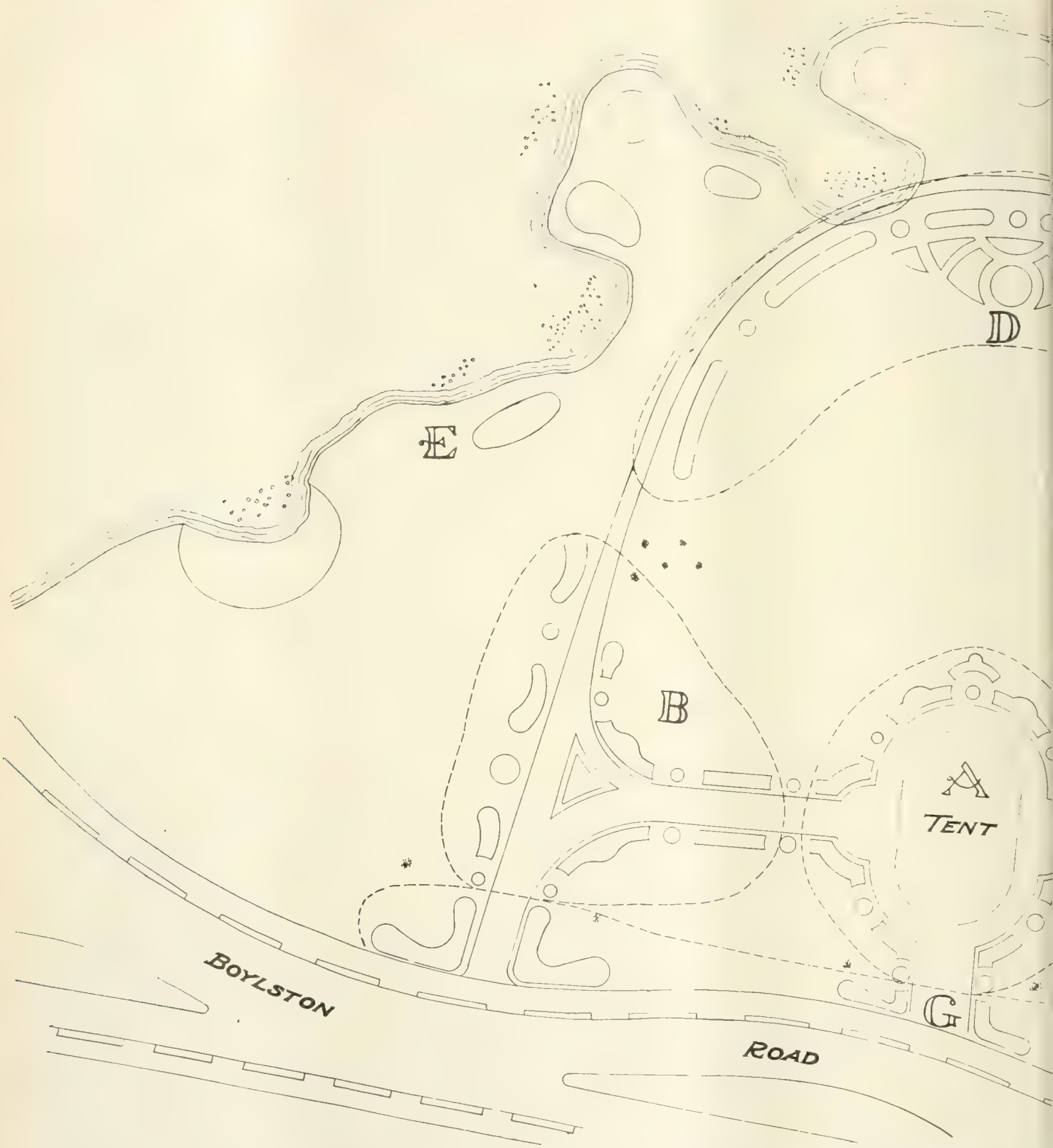
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PLAN OF THE BOSTON



The Park and Recreation Department of the City of Boston in conjunction with the S. A. F. and O. H. Convention Garden Committee presents herewith a plan of the proposed garden. Owing to the lateness of the season and the near approach of planting time, early consideration by intending exhibitors is desired.

The only charge will be for planting and care of plants throughout the season, as stated in the communication from Secretary Young on another page. All the arrangements, grouping and control of the exhibits will be under the direction of the Park and Recreation Department of the City of Boston, and no exhibit may be removed until that Department gives authority for such removal next autumn.

It is expected that this will be the largest exhibit of its kind ever made in this country, numerous inquiries for space having been made already.

The Tent space will be devoted to tender plants requiring protection from sun and wind.

CONVENTION GARDEN.



Space G is shaded by large trees and should be devoted to evergreens, shrubbery, etc.

The other groups, A, B, C, D, E and F, are all open, level land, available for general exhibits.

The small bays in the adjacent Fens Pond bordering on sections E and F are admirably adapted to water gardening, semi-aquatic and shore planting.

Allotments will be made with preference to earliness of application, which, together with all inquiries and correspondence, should be addressed to James B. Shea, Deputy Commissioner, Department of Parks and Recreation, 33 Beacon street, Boston.

It is the earnest desire of the Committee that all allotments be completed by May 1st.

JOHN H. DILLON,
Chairman Park and Recreation Commission.

JAS. B. SHEA,
Chairman Convention Garden Committee.

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Southington, Ct.—Francis Bros., Center street.

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Cleveland, O.—Bramley & Son, 1876 E. 6th street.

Oswego, N. Y.—N. C. Feeley, 75 E. Bridge street.

STEAMER DEPARTURES

Allan.
Hesperian, Boston-Glasgow...Apr. 14

American.
St. Louis, N. Y.-S'hampton....Apr. 17
Philadelphia, N. Y.-S'h'mpt'n.Apr. 24

Atlantic Transport.
Minnehaha, N. Y.-London.....Apr. 18

Cunard.
Campania, N. Y.-Liverpool...Apr. 14
Carmania, Boston-Liverpool..Apr. 28

French.
La Lorraine, N. Y.-Havre.....Apr. 15
Floride, N. Y.-Havre.....Apr. 17
Niagara, N. Y.-Havre.....Apr. 18
La Savoie, N. Y.-Havre.....Apr. 22

Hamburg-American.
Imperator, N. Y.-Hamburg...Apr. 15
Cincinnati, N. Y.-Hamburg...Apr. 18
Cleveland, Boston-Hamburg..Apr. 30

Holland-America
Ryndam, N. Y.-Rotterdam....Apr. 14
Rotterdam, N. Y.-Rotterdam..Apr. 21

Leyland.
Devonian, Boston-Liverpool...Apr. 18
Canadian, Boston-Liverpool...Apr. 25

North German Lloyd.
K'p'z Wilhelm, N. Y.-Bremen.Apr. 14
Geo. Washington, N. Y.-Br'n.Apr. 16
K'p'z'n Cecilie, N. Y.-Bremen.Apr. 21

Red Star.
Finland, N. Y.-Antwerp.....Apr. 18
Lapland, N. Y.-Antwerp.....Apr. 25

White Star.
Cymric, Boston-Liverpool.....Apr. 14
Celtic, N. Y.-Liverpool.....Apr. 16
Olympic, N. Y.-S'hampton....Apr. 18
Cedric, N. Y.-Liverpool.....Apr. 23

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Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

FLOWERS ON OCEAN LINER.

Roses worth a fortune were taken to Europe last Thursday on the White Star liner Cretic when she sailed for Mediterranean ports with the first big tourist passenger list of the opening season. Not for many years has such a magnificent floral display been seen on a steamer sailing out of Boston. For an hour previous to the taking in of the gang plank messenger boys and delivery men kept boarding the big steamship with long boxes of American Beauties, fancy baskets and bouquets from friends ashore for those sailing. Some of the lady passengers were almost hidden from sight by immense displays of roses, carnations and lilies of the valley.

Malden, Mass.—The greenhouses formerly conducted by Peter Ball are now run by Neal E. Boyle under the name of the Faulkner Conservatories. Mr. Boyle is quite proud of his Easter lilies this year and well he might be for they are fine, over six thousand pots of giganteum and bloomed to perfection.

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3 PLEASANT ST., WORCESTER, MASS.
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CHICAGO NOTES.

Felix Reichling is the new manager at Peter Reinberg's store, taking the place left vacant by Tim Matchin.

The regular meeting of the Retailers' Association, which was to have taken place April 6th, was postponed indefinitely.

J. Mangel will have to wait another month for his stand in the entrance to the new Field building, that portion having been left until the last.

It is the opinion of Geo. Asmus that indications are for a big Easter business, but that it will come in the form of many sales of small size rather than fewer sales of large size.

At A. Henderson's, caladiums, tuberoses and gladiolus are now about all there is left of the season's offerings. The traveling men are giving encouraging reports of business on the road.

Everywhere the subject of the length of the lily stems is under discussion. The growers who have always produced tall lilies before are inclined to lay it to the bulbs, while the one who can show the tall plants so desired for Easter, smiles in satisfaction. A. Henderson declares it is all stored up in the bulb and it is the test of ability to produce the long stem and the perfect flower.

Easter Plants.

Very handsome ericas have been received and when tastefully "dressed up" are very attractive to purchasers. Well-flowered Bauera rubioides were also brought from the east and made fine window plants, their pink coloring being very warm and bright. Genistas are not so much in evidence as heretofore at the retailers. Begonia Chattelaine is making its first appearance here this year. It is used in filling baskets with good effect and seems sure to become popular. Baby Rambler roses are in good supply especially in the smaller sizes. On account of the more attractive colors of the newer varieties the original Baby Ramblers are not so popular as formerly. Among the rhododendrons offered in the stores Pink Pearl seems well in the lead.

Azaleas are proving up the predictions made when they arrived in poor condition last fall. Consequently this Easter is not going to find so many perfect plants on the counters as in other years. As usual Madam Vander Cruysen is a great favorite.

Some of the florists' windows contain the finest specimens of trained roses ever grown here and while the supply is larger than usual, it is still unequal to the demand which seems larger each year. Next to lilies come roses, as one retailer stated, and in filling baskets every size was needed.

One large plant grower claims a loss of 35 per cent of his giganteum lilies. He says "we have discarded others and now giganteum seems to be going the same way and lily growing is a huge gamble with the odds against the grower."

An excellent illustrated article on grafting, by Prof. Le Roy Cady, of St. Paul, appears in the April number of the Minnesota Horticulturist.

PHILADELPHIA NOTES.

Through the efforts of Mrs. George G. Meade Large, a prominent young society matron, Rittenhouse Square will be converted into a flower mart for one day in the first week of May.

Mrs. Large had the flower markets of Paris in mind when she thought of this novel way of holding a spring sale. The centre of the square will be filled with gayly striped booths, which will be in charge of well-known society women.

One booth will be devoted to preparing window boxes, another to garden tools. Cut flowers will be sold by the younger members of the Rittenhouse Square Association, and boutonniers will be offered for sale by some of the pretty girls who will be presented next season.

There will be two push carts, copied from those used by the peasants in France, who go about the streets with their wares.

Mrs. Large, before undertaking the affair, obtained permission from City Councils. It has been decided to divide the proceeds of the sale between charity and the Rittenhouse Square Association.

The affair will be open to the public, and there will be no admission, but every one loving flowers is invited to come and revel in their beauty.

Philadelphia North American.

Salaams to the lady. More sense in that than chasing around nowhere in particular in an auto; or being bored to death at a dress-show.

On Saturday last a very impressive vase of the new carnation "Philadelphia Pink" was on exhibition in the show window of Pennock Bros. It caught the crowd.

WASHINGTON NOTES.

The sympathy of the entire trade is with Mr. and Mrs. James E. Dalgleish, who recently suffered the loss of their ten year old daughter, Frances Lucretia Dalgleish, who passed away following an attack of heart trouble.

William Marche has been elected to membership in the Washington Board of Trade and his name now appears on the roster of all of the city's important commercial organizations. He has been prominently identified with the Chamber of Commerce and the Retail Merchants' Association, as well as the Florists' Club.

Fred H. Kramer on Sunday last tendered a reception to The Minute Men, a patriotic organization of this city, at his store at 916 F street, and it proved a most novel idea for that establishment was filled with Easter plants and cut flowers, which with the Japanese lanterns hung from the roof of the conservatory, made a most pleasing effect.

Peter Bisset, of the Department of Agriculture, and an active member of the Florists' Club of Washington, is doing much to instill a love of flowers into the hearts of Washingtonians and last week delivered an illustrated lecture on "Flower Gardens and Improved Plants," before the Citizens' Northeast Suburban Association. Charles F. Tansill, president of the Brookland Brotherhood addressed the assemblage on "The Making of Flower Gardens and Beautifying the Homes."

Cincinnati.—M. Anderson has closed his local store and arranged to ship the fixtures to Dayton, Ohio, to use at his place there.

R. Murphy has an excellent new light snapdragon which he has named Lorraine.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

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New York, N. Y.—General Cut Flower & Foliage Co., 141-145 West 36th street.

Columbia City, Ind.—S. F. Trembley Co., Masonic Temple Bldg.; capital stock, $15,000.

Crawfordsville, Ind.—Jeff-McDonald Florist Company, capital stock, $20,000. Incorporators, Jeff McDonald, H. J. Webb and C. H. Jones.

Winchester, Mass.—Wedgmere Conservatories, Inc., florists; capitalized for $10,000. John D. Twombly, Winchester; Henry M. Twombly, Medford, and Daniel C. Linscott, Winchester.

Big Display of Memorial Day Goods

THE FLORIST TRADE OF NEW ENGLAND

Are invited to the Quincy House, Boston, from April 14 to April 20, to inspect the most complete exhibit of Memorial Day supplies which we have ever made in Boston. Besides the usual standard stock of Cycas Wreaths, Magnolia Wreaths, Brown and Green Magnolia Foliage, Metal Designs, Crepe Roses, Dahlias, Mums, Carnations, Orchids, etc., we shall show many beautiful rapid-selling novelties of seasonable interest.

Don't Fail to Call and Look Them Over.

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

Obituary

F. Walker.

F. Walker, the oldest florist in Louisville, Ky., died last week, aged 85 years. He was head of the firm of F. Walker & Co., and had been engaged in the florist business for nearly 40 years.

James H. McManus.

Like a thunderbolt from a clear sky, came the information on Saturday morning, April 4, that James McManus, identified from boyhood with the flower store of Thomas F. Galvin, Boston, had dropped dead the evening before, at his home in Jamaica Plain. He had gone home from the store as usual and after supper fell from his chair, dead, without any premonition. Mr. McManus was born in West Roxbury, Mass., in 1858 and when a boy of 12 went to work in the store of John Galvin, father of Thomas F. Galvin, who is now the head of the corporation and of which Mr. McManus was a stockholder. He leaves a widow and one daughter. James McManus was one of the most industrious men we have ever known. Methodical and steady, he was always on duty, alert and reliable. He had rare good taste in the arrangement of flowers and no florist's business has ever had the services of a more loyal, faithful and useful employee. His sudden passing away is deeply deplored.

Springfield, Mass.—Springfield is to have a rose garden in Forest park which will attract attention all over the land within a few years if the plans of Marshall Headle, the new municipal florist, materialize. Mr. Headle, who recently came to the park department, has scanned the field he is to cover and already has a number of beautification schemes developing, one of which is the rose garden idea. The site for the garden is practically selected and the first bushes will be set out this spring.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

REACTIONARY.

One of the things which has always appealed to a man with narrow vision is that he can improve his own business by chasing the street vendors who sell cheap posies off the earth. He has succeeded in many places in doing this to a large extent, and yet his business does not seem to improve. He refuses to see that these humble vendors are really missionaries for his business and the love of flowers in general.

The latest move in Philadelphia is a petition to Mayor Blankenburg to chase the Easter plant vendors off the City Hall Plaza—a time-honored institution which has done much to spread a love of flowers among the people. To advocate so short-sighted a policy in my opinion indicates a mind defectively narrow, shallow and quite unable to grasp things at their fundamentals. Why not get out and hustle for some more new business for themselves instead of gunning for the fellow who does?

G. C. W.

OUT OF THE ORDINARY.

"Tango Tints."

The Baltimore Sun, in enumerating some of the floral attractions offered for Easter in that town mentions "sweet peas in tango tints." Can't seem to get the thing out of mind even in Holy Week!

Gardening as Penalty.

Raising flowers and "garden sass" will be the punishment given juveniles for their misdemeanors in the future by the Malden (Mass.) Court. Judge Bruce, whose original methods of handling problems of juvenile delinquency have won him much commendation, believes that few of the boys and girls brought before him are wholly bad, and that the way to reclaim them is not through confinement in correctional institutions.

Vacant land has been offered by J. G. Chandler, of Malden, for Judge Bruce's purpose, and the judge will hereafter sentence juveniles to terms at raising vegetables and flowers.

BUSINESS TROUBLES.

Hartford, Conn.—In the United States Court, bankruptcy petitions were filed on April 3 by Alfred G. Williams, florist, of Norwalk, with liabilities of $2,713.20 and assets of $290.40.

PERSONAL.

James Watt succeeds the late Paul Volquardsen as head gardener for Mrs. W. G. Weld, Bellevue avenue, Newport, R. I.

W. A. Miller has taken a position with the C. P. Mueller Floral Co., Wichita, Kan. He has been with the W. L. Rock Flower Company, Kansas City, Mo., for the past twelve years.

In its department "People of Interest," the Boston Morning Herald for Sunday, April 5, devoted two whole columns to an account of the activities and attainments of J. K. M. L. Farquhar, together with an excellent portrait of that gentlemen. It was a very interesting and inspiring story of the career of a self-made man.

William Allan has resigned his position as gardener for Dr. H. B. Jacobs, Narragansett Ave., Newport, R. I. Mr. Allan was in charge of the place for nearly twenty years, succeeding his father who held that position for about twenty-five years. John McGowan who has been gardener for several years at the L. S. Bruguiere estate near Newport, R. I., has succeeded William Allan at Dr. Jacobs' place.

FIRE.

Brooklyn, N. Y.—Policeman O'Brien of the Herbert street station had his attention attracted early Saturday morning, April 4, to smoke coming from the store of the Le Grand Floral Company, of 575 Grand street. On examination he found that the entire store was ablaze, the flames being hidden from the street by the window display of cut flowers. He turned in an alarm after rousing the tenants in the upper floors of the house. The fire was extinguished after three-quarters of an hour's work. The damage, which amounted to $1,500, is covered by insurance.

Plainfield, N. J.—H. J. Forristel has bought the florist business from his uncle, William H. Forristel, on Bellview avenue, near Park avenue, and will take possession at once.

25 Years' Experience

Making Flower Selling Refrigerators for Stores and Greenhouses. Perfect Refrigeration Ice Economy. Ask for Catalog X8.

United Refrigerator and Ice Machine Co., Kenosha, Wis.



SNAPDRAGON

$6.00—$10.00 per 100

VALLEY $3.00—$4.00 per 100

GARDENIAS $1.50—$3.00 dozen

KILLARNEY BRILLIANT $6.00 to $12.00 per 100

The Leo Niessen Co.

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N. W. Corner 12th and Race Sts., **PHILADELPHIA**

Mention HORTICULTURE when writing.

Order Your Memorial Day Flowers, Plants and Supplies Early.

Get Your Young Stock Now, to Grow On for Next Season.

All Choice Plants, Seeds and Roots may be procured from the Advertisers in this Paper.

THE BEST LETTERS FOR FLORIST'S USE



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66 PEARL ST. BOSTON

N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI April 6	CHICAGO April 6	BUFFALO April 6	PITTSBURG March 30
Am. Beauty, Special	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	35.00 to 50.00
" " Fancy and Extra	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	20.00 to 30.00
" " No. 1	15.00 to 20.00	15.00 to 25.00	15.00 to 20.00	10.00 to 15.00
Killarney, Extra	6.00 to 8.00	8.00 to 12.00	6.00 to 12.00	8.00 to 12.00
" Ordinary	4.00 to 6.00	3.00 to 5.00	6.00 to 8.00	4.00 to 6.00
Richmond, Hillingdon, Extra	8.00 to 10.00	8.00 to 12.00	10.00 to 12.00	8.00 to 15.00
" " Ordinary	4.00 to 6.00	3.00 to 5.00	5.00 to 8.00	4.00 to 6.00
Maryland, Ward, Taft, Sunburst, Ex.	8.00 to 10.00	8.00 to 12.00	12.00 to 15.00	8.00 to 12.00
" " " " Ordinary	6.00 to 8.00	3.00 to 5.00	6.00 to 8.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to	..... to	..... to .....
Carnations, Fancy	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00	..... to 4.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50	..... to 2.00
Cattleyas	50.00 to 60.00	50.00 to 60.00	40.00 to 50.00	35.00 to 50.00
Lilies, Longiflorum	10.00 to 12.50	10.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Callas	10.00 to 12.50	8.00 to 10.00	10.00 to 12.50	..... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Wallflower	..... to	..... to	2.00 to 3.00	..... to .....
Snapdragon	8.00 to 15.00	..... to	5.00 to 8.00	..... to .....
Daffodils	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Tulips	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Violets	.50 to .75	.50 to .75	.60 to 1.00	..... to .50
Pansies	..... to	..... to	1.00 to 1.50	..... to .....
Mignonette	5.00 to 6.00	4.00 to 8.00	2.00 to 5.00	4.00 to 6.00
Daises, white and yellow	1.00 to 2.00	1.50 to 2.00	1.00 to 1.50	2.00 to 3.00
Sweet Peas	.75 to 1.50	.50 to 2.00	.50 to 1.00	.40 to .75
Lilacs, per bunch	..... to	..... to	..... to	..... to .....
Gardenias	25.00 to 40.00	25.00 to 40.00	25.00 to 35.00	..... to .....
Adiantum	1.00 to 1.50	.75 to 1.00	1.00 to 1.25	..... to .....
Smilax	12.50 to 15.00	12.00 to 16.00	..... to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	50.00 to 75.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00	30.00 to 50.00

BUY

BOSTON FLOWERS

N. F. McCARTHY & CO.,

112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

POEHLMANN BROS. CO.

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72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

CHICAGO CARNATION CO.

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30 East Randolph Street, CHICAGO, ILL.

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WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

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RICHMOND, IND.

Please mention Horticulture when writing



MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON

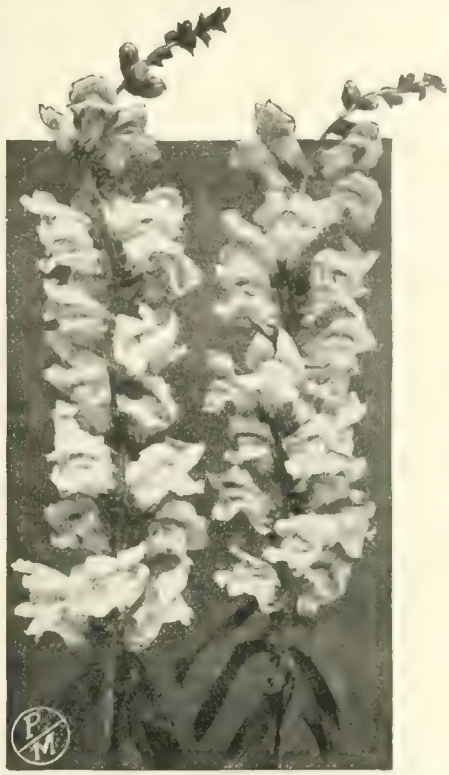
This market at present moment is in the maze of shipping trade crossed with a lot of guesswork and the final outcome of the Easter hustle is as blind a proposition as that of some of our experimenting hybridizers. The rose market is exceptionally good, as it looks today (Thursday), but it will be an uncertain quantity until Saturday's story is recorded. Lilies are a very doubtful quantity. It seems that many more are in evidence than in any previous year and every corner grocery and 10 cent store appears to have a supply. Many of them are much too dwarf, but all are well furnished with flowers. Carnations started in weak but are recovering somewhat. Violets and sweet peas are moving well, the single violets outselling the doubles as usual. Bulbous stock is selling better than in any Easter time in recent years. Callas also seem to have recovered some of their old-time popularity. A few candidum lilies are seen, and these also are "high-liners." Plant business is proceeding as usual and more ribbon adornment is seen than heretofore in Boston.

BUFFALO

On Saturday a heavy day's business was expected, but an all day snow storm kept the buyers well scattered and light speculating was the result. The receipts have been heavy throughout the past week and there is nothing on the scarce side. The supply is heavy on carnations and a good many of the ordinary accumulated to a large extent. Roses are also heavy and beauties more plentiful than last reported. There are plenty of sweet peas, violets, lily of the valley and other corsage flowers and a heavy supply of bulbous material which has only a fair demand. Aside from good ferns there is plenty of everything.

CHICAGO

Neither local nor shipping trade could be called heavy the first week in April, but as no very great amount of stock was coming in it was fortunate that the demand was not greater. At this writing, Tuesday before Easter, shipping is under way and will continue till local trade takes its place for the Easter rush at the latter part of the week. Just now the prospects for a shortage of carnations seems imminent, for the steady cutting which began before the holidays has finally reached its limit and the crop is nearing the end. Dark weather for three weeks, has contributed its share also. Lilies are coming into the market in rather limited quantities today, but the opinion prevails that there will be sufficient for all, though not all will be first class. Bulbous stock is growing scarce and much of it is small, but there is some really excellent stock remaining. American Beauties probably are going to equal the demand, in spite of earlier appearances to the contrary, though a strictly fancy grade will be wanting. There are plenty of roses now and no fear is felt for an adequate supply for the week. Sweet peas are shortening up. Lily of the valley holds firm and quality is excellent. Ferns are scarce and high.



SNAPDRAGON

For weddings nothing more decorative than Snapdragon, whether it be white, yellow, pink or that wonderfully rich, clear pink that has been such a grand seller with us for the last few years.

All colors, $1.00 to $1.25 doz.
Choice Pink, $1.50 to $2.00 doz.

EVERYTHING IN RIBBONS—We carry one of the largest and most varied stocks of Ribbons pertaining to the florist business of any house in the country. If you have not received one of our new catalogues, advise us and we will mail you one at once.

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Baltimore
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New York
117 W. 28th Street
Washington
1216 H Street, N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 — TO DEALERS ONLY

	BOSTON April 7			ST. LOUIS April 6			PHILA. April 6		
Roses									
Am. Beauty, Special	40.00	to	50.00	40.00	to	50.00	35.00	to	50.00
" " Fancy and Extra	20.00	to	30.00	20.00	to	25.00	15.00	to	30.00
" " No. 1	10.00	to	15.00	15.00	to	18.00	5.00	to	12.50
Killarney, Extra	6.00	to	10.00	6.00	to	8.00	8.00	to	15.00
" Ordinary	2.00	to	4.00	3.00	to	4.00	3.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	10.00	8.00	to	10.00	10.00	to	15.00
" " Ordinary	2.00	to	4.00	5.00	to	6.00	4.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	12.00	6.00	to	8.00	10.00	to	15.00
" " " " Ordinary	2.00	to	4.00	3.00	to	4.00	4.00	to	8.00
Russell, Shawyer	8.00	to	15.00	.....	to	.....	5.00	to	25.00
Carnations, Fancy	4.00	to	5.00	4.00	to	5.00	4.00	to	5.00
" Ordinary	2.00	to	3.00	2.00	to	3.00	3.00	to	4.00
Cattleyas	20.00	to	40.00	40.00	to	50.00	35.00	to	60.00
Lilies, Longiflorum	6.00	to	12.00	12.00	to	15.00	10.00	to	15.00
Callas	10.00	to	12.00	10.00	to	12.00	15.00	to	20.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	2.00	to	4.00
Wallflower	.....	to	.....	.....	to	.....	.25	to	.50
Snapdragon	.....	to	.....	4.00	to	5.00	.50	to	2.00
Daffodils	1.00	to	2.00	3.00	to	4.00	1.00	to	3.00
Tulips	2.00	to	3.00	3.00	to	4.00	1.00	to	3.00
Violets	.50	to	.75	.35	to	.60	.25	to	1.00
Pansies	.....	to	.....	.....	to	.....	.05	tt	.10
Mignonette	2.00	to	4.00	4.00	to	5.00	3.00	to	5.00
Dasies, white and yellow	.50	to	1.00	1.00	to	2.00	.50	to	2.00
Sweet Peas	.50	to	1.25	.40	to	2.00	.25	to	1.25
Lilacs, per bunch	.....	to	.....	.....	to	.....	.35	to	1.25
Gardenias	15.00	to	20.00	.....	to	.....	6.00	to	35.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	25.00	to	50.00

CINCINNATI

From present reports there will be a good and adequate supply of almost all kinds of seasonable flowers for Easter. Easter lilies are in a fine crop and all receipts coming in at the time of this writing are excellent in respect to quality. Roses except American Beauties are also in a good crop. The carnations are not quite on a full crop, but the cut will be good and large. A fair amount of tulips, jonquils and hyacinths may also be had. The sweet pea supply is large as well as that of lily of the valley. Other offerings include antirrhinum, orchids, callas, rubrum lilies, mignonette and forget-me-nots. Business last week was very good. Practically all good stock in roses, carnations and lilies met with a ready sale, very little if any being sacrificed. Business in greens was also very good.

NEW YORK

Quite an agreeable change has come over the wholesale market within the past two or three days. Business has improved greatly and prices have made a decided advance on most lines, especially on the ordinary grades of roses and all grades of carnations. Lilies are very plentiful and the outlook is that there will be great quantities of these for Saturday, the opinion being that moderate prices must prevail owing to the large supply. Good violets are holding up well and will bring good figures for Easter if the weather should be favorable for outdoor wearing. Bulbous stock is normal, with the exception of poeticus narcissus which is very plentiful, the flowers selling from $6.00 to $7.50 per 1000.

(Continued on page)

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending Apr. 4 1914			First Half of Week beginning Apr. 6 1914		
American Beauty,	Special	15.00	to	25.00	20.00	to	35.00
" "	Fancy and Extra	10.00	to	15.00	10.00	to	15.00
" "	No. 1	8.00	to	10.00	8.00	to	10.00
Killarney,	Extra	4.00	to	6.00	4.00	to	6.00
"	Ordinary	2.00	to	4.00	2.00	to	4.00
Richmond, Hillingdon,	Extra	4.00	to	6.00	4.00	to	6.00
" "	Ordinary	2.00	to	4.00	2.00	to	4.00
Maryland, Ward, Taft, Sunburst,	Extra	4.00	to	12.00	4.00	to	12.00
" " "	Ordinary	2.00	to	4.00	3.00	to	4.00
Russell, Shawyer		3.00	to	10.00	3.00	to	15.00
Carnations,	Fancy Grade	3.00	to	4.00	3.00	to	4.00
"	Ordinary	1.00	to	2.00	1.00	to	2.00

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ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
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CHOICE CUT FLOWERS
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TRAENDLY & SCHENCK
Wholesale Florists
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A. Young & Co.
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1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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Flower Market Reports

(Continued from page 581)

PHILADELPHIA The early part of last week we experienced rather sluggish business, but the last two days were extra good, with a splendid clean-up. The best change that came over the scene was especially noticeable in carnations which from a large overflow actually developed into a shortage, was much to the surprise of the buyers who thought they were being imposed on. One buyer looked very skeptical indeed and said he was doing no more business than on the preceding days. The comment of a wholesaler after that retailer had left summed up a very common occurrence in the flower market. Said he: "That lad seems to think that because he's doing no business nobody else is." And he added a piece of sententious wisdom to this effect: "Its a bad thing to think you're the only tin can on the dump and its worse for the man who thinks it than for anybody else." While all grades of roses remained plentiful they felt the effects of the improved market although not so strongly as carnations and there was a slight hardening in prices towards the end. Beauties have been quite plentiful and here and there some fine flowers have had to be sacrificed. The quotations for the coming Easter are a vast change from the $10 top figure of 1913. This year $6 is the highest and so on down the grades. This is due, of course, to the later date of Easter this year. Three weeks ago Beauties were just as scarce as they were at the same date in 1913. In cattleyas, Schroederæ still holds the fort although a few Mossiæ are beginning to appear. The gardenia market has improved a little, but we still see lots of them on the street which means there are sacrifices somewhere. Violets are plentiful and slow. The indications are for a good demand on these for Easter and good prices are being got for advance bookings. Sweet peas are far too many in the lower grades. High quality is not so plentiful as we have been receiving up to now. Easter lilies are about normal and prices are reasonable. There is likely to be a big slump after Easter as there are an immense number of shorts in pots that are not likely to sell and these will be cut and dumped on the cut flower market next week, demoralizing things generally both for these and for the good stock. Daffodils of the choice greenhouse-grown quality are about over, but there is plenty of the cheap outdoor stuff from the south now arriving. Snapdragon plentiful and of fine quality.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Apr. 4 1914	First Half of Week beginning Apr. 6 1914
Cattleyas	25.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	4.00 to 6.00	6.00 to 8.00
Callas	4.00 to 6.00	6.00 to 8.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Wallflower	..... to	..... to .....
Snapdragon	..... to	..... to .....
Daffodils	1.00 to 2.00	1.50 to 2.00
Tulips	1.00 to 3.00	1.50 to 3.00
Violets	.15 to .35	.40 to .60
Pansies	..... to	. ... to .....
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises, white and yellow	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	6.00 to 8.00	6.00 to 8.00
Lilacs (per bunch)	.. ... to 1.00	..... to 1.00
Gardenias	10.00 to 25.00	10.00 to 25.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	20.00 to 30.00	20.00 to 30.00
" " & Spren (100 bunches)	15.00 to 20.00	15.00 to 20.00

ST. LOUIS The Easter market from all indications is going to be good, with plenty of stock for all, but with considerable advance in prices, according to the quotations posted by the wholesalers this morning April 6. The past week stock was sold so very cheap at both wholesale and retail, that the sudden advance in the prices will hurt the sale of cut stock greatly. The large retail places in the West End say they expect a great plant trade this week and will advise the sale of these in place of cut stock. Lilies are going to be very plentiful this year, as all of our local places will have plenty. Roses and carnations will no doubt be in abundance as they have been the last two weeks, also sweet peas. Violets though, are becoming pale and not so many will come in. Bulb stock promises to be heavy in all lines.

WASHINGTON Stock for the Easter trade is exceptionally plentiful and the prices average about the same as in previous years. The first of the week found the market somewhat short of carnations, but this was perhaps due to the increased demand for the flower over the previous few weeks. White roses, have been and are of fine quality. The supply of Easter lilies is sufficient to meet all local requirements. Potted plants are of fine quality and the sale good. When seen by HORTICULTURE's correspondent on Tuesday, J. Henry Small, Jr., William F. Gude, William Marche, George C. Shaffer, Fred H. Kramer, Otto Bauer, George H. Cooke, and others appeared very optimistic and while some of these gentlemen refused to absolutely commit themselves, yet from their conversation they expected something in the way of "big" business that would offset the dullness of the Lenten season.

VISITORS' REGISTER.

Boston—Fred Lautenschlager, representing Kroeschell Bros. Co., Chicago; Dr. Geo. E. Stone, Amherst, Mass.

Chicago—A. C. Brown, Springfield, Ill.; Edw. Amerpoehl, Janesville, Wis.; J. Dinkel, Springfield, Ill.; Geo. F. Crabb, Grand Rapids, Mich.; Alfred Forder, Cincinnati, O.; Mrs. J. R. Bather, Clinton, Ia.

Cincinnati—Samuel Seligman, New York; Joseph M. Stern, Cleveland, O.; Paul E. Graves, representing Amherst Waxed Paper Mills, Amherst, Mass.; Mr. Van Acker, of Van Acker Bros., Saffelane, Belgium; Mrs. Lampert, Xenia, O.; Jim Keller, Lexington, Ky.; Floyd Anderson, Xenia, O.; and Mrs. Winters, Charleston, West Virginia.

NEW BOSTON WHOLESALE HOUSE.

McAlpine & McDonald have opened up a new, well-equipped and commodious salesroom at 256 Devonshire street for wholesale cut flowers, greens, and plants. Business has made a good start already.

The trustees of the Massachusetts Horticultural Society, always ready to extend a generous helping hand to any worthy enterprise for the advancement of horticulture, have appropriated on behalf of the society, the sum of $500, to be expended at the discretion of a committee consisting of President, J. K. M. L. Farquhar and Messrs. Thomas Roland and E. W. Wilder in the interest of the S. A. F. Convention.

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Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

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Aphine Mfg. Co., Madison, N. J.
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Nicotine Mfg. Co., St. Louis, Mo.
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ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
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ASPARAGUS

W. H. Elliott, Brighton, Mass.
Asparagus Plumosus Nanus Seedlings.
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J. E. Felthousen, Schenectady, N. Y.
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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

ASTER SEEDS

Michell's Seed House, Philadelphia, Pa.
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Crego Aster Seed, best possible, white, shell, blue, rose, oz., $1.25; ½ oz., 75c.; ¼ oz., 40c.; 6 color mixture, 20% less. 1 oz. each color, $4.00; ½ oz., $2.50; ¼ oz., $1.40. Cash. D. C. LEWIS, Pemberton, N. J.

Aster Seed, Late Branching White, in bulk, $4.00 per lb. Same variety in selected seed for cut flowers, 1 oz., $1.00; ½ oz., 50c.; ¼ oz., 30c.; ⅛ oz., 20c. Cash. HUDSON & WELSH, Lyndonville, N. Y.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Bobbink & Atkins, Rutherford, N. J.
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Three Good Boilers For Sale.
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Hitchings & Co., New York City.

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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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August Rolker & Sons, New York City.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

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Boddington's Quality Cannas.

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Swastika Brand Cannas.
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108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

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Unrooted cuttings, White and Light Pink Enchantress, Harlowarden, fine healthy stock, 75 cts. per 100; $6.00 per 1000. Sample by mail. W. A. FINGER, Hicksville, N. Y.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Chrysanthemum Novelties for 1914.
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Chrysanthemums Rooted Cuttings.
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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c, $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

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Yellow Mensa	$10.00
Mensa. Finest White	5.00
Celia. Lemon Yellow	5.00
Cha. Kingsley. Fine Yellow	5.00
Mary Pope. Large Pink	5.00
Hilda Wells. Tuscan Red	4.00
Mary Richardson. Salmon	4.00
Mrs. Heneage. Yellow Anemone	4.00
Pompons—Lula, white; Souvenir d'Or, orange and bronze	3.00

FRANK P. PUTNAM,
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20th Century Plant Food Co., Beverly, Mass.
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200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

Thomas Roland, Nahant, Mass.
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Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

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DAHLIAS—Continued

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Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

Dahlias—Clean, healthy stock, fully matured, novelties and standard varieties, true to name and at reasonable prices. Also Gladioli, field-grown Hollyhocks, Herbaceous plants, etc. Send business card for catalogue. W. W. WILMORE, Box 382, Denver, Colo.

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John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
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J. E. Felthousen, Schenectady, N. Y.
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Dracaena Indivisa, fine stock, 3 in., $5; 4 in., $10; 5 in., $15; 6 in., $25—per 100. Cash please. J. W. MILLER, Shiremanstown, Pa.

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Colin Campbell, New York City.
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Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

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Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.
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NIKOTEEN

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NIKOTIANA

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Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
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Breck-Robinson Nurseries, Boston, Mass.
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Old Town Nurseries, M. P. Haendler, Prop., South Natick, Mass.
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Robin Hill Nurseries, Chelmsford, Mass.
Large Specimen Evergreen and Deciduous Trees.
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ONION SETS

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ORCHID PLANTS

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Sander, St. Albans, England.
Importer, Exporter, Growers, Hybridists.
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Freeman Orchid Co., Fall River, Mass.
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Robert Craig Co., Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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Joseph Heacock, Wyncote, Pa.
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August Rolker & Sons, New York City.
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Otto Heinecken, New York City.
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PANSY PLANTS

125,000 large, stocky (September transplanted), field-grown, blooming pansy plants; Henry Mette's strain, all salable stock, satisfaction guaranteed. $1.00 per 100, $10.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

PEONIES

J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX

Phoenix Canariensis, fine large plants, $7.50 $35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PHYSOSTEGIAS

PHYSOSTEGIA VIRGINICA, field grown, strong, $3.50 per 100, $30.00 per 1000. W. E. KING, Little Silver, New Jersey.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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King Construction Company, N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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Pfaff & Kendall, Newark, N. J.
Second-Hand Pipe for Truck Farms and Gardens.

PLANT AND BULB IMPORTS

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McHutchison & Co., New York City.
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Otto Heinecken, New York.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

POINSETTIA PULCHERRIMA

A. Schultheis, College Point, N. Y.
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POTASH

German Kali Works, Inc., New York City.

PRIVET

CALIFORNIA PRIVET.

	1000
18 to 24 inches	$9.00
2 to 3 feet	11.00
3 to 4 feet	17.50

All two-year, cutback, branched stock. Prices F. O. B. when cash accompanies order. Boxing extra on shipments for June 1st payment. Reference required. Quick and cheap water freight via Jacksonville to Baltimore, New York, Boston. GRIFFING BROTHERS, McClenny, Fla.

RAFFIA

McHutchison & Co., New York City.
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REFRIGERATORS FOR FLORISTS

United Refrigerator & Ice Machine Co., Kenosha, Wis.
United Ice Machines.
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RHODODENDRONS

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Eastern Nurseries, Jamaica Plain, Mass.
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August Rolker & Sons, New York City.
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Charles H. Totty, Madison, N. J.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

SALVIAS—Extra strong Seedlings, Bonfire or Dragon, 50c. per 100, $4.00 per 1000. Cash. R. POWELL, Florist, Box 266, White Plains, N. Y.

SEED GROWERS

Leonard Seed Co., Chicago, Ill.
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California Seed Growers' Association, San Jose, Cal.
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Braslan Seed Growers Co., San Jose, Cal

SEEDS

Carter's Tested Seeds,
Boston, Mass., and London, England.
"Seeds with a Lineage."
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Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
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W. Atlee Burpee & Co., Philadelphia, Pa
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J. M. Thorburn & Co., New York City.
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Leonard Seed Co., Chicago, Ill.
Peas, Beans, Radish and all Garden Seeds
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Arthur T. Boddington, New York
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Sweet Peas.
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Loechner & Co., New York City.
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Seeds for Florists.
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S. D. Woodruff & Sons, New York.
Garden Seed.
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Winter Orchid Sweet Pea Seed.
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J. Oliver Johnson, Wicker Park Station, Chicago, Ill.
Lawn Grass Seed.
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Burnett Bros., New York City.
Seasonable Seeds.
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Stamford Seed & Nursery Co., Stamford Conn.
Quality Sweet Pea Seeds.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

SLUG SHOT

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
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SNAPDRAGONS

G. S. Ramsburg, Somersworth, N. H.
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SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

TRITOMAS

Let me hit you with the poker. Tritoma Pfitzeri, red hot poker, strong crowns, $5.00 per 100. THOMAS J. OBERLIN, Sinking Spring, Pa.

TUBEROSES

J. M. Thorburn & Co., New York City.
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VEGETABLE PLANTS

TOMATOES.
5000 Comet Forceing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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VERONICAS

VERONICA LONGIFOLIA SUBS., field grown, or 3 in. stock, $3.50 per 100, $30.00 per 1000. W. E. KING, Little Silver, New Jersey.

WEED KILLER.

Pino-Lyptol Chemical Co., New York City.
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Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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In writing to Advertisers kindly mention Horticulture

New Offers In This Issue

BARRIE FORCING FRAME.
Geo N Barrie, Brookline, Mass.
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DISPLAY OF MEMORIAL DAY GOODS.
H. Bayersdorfer & Co., Philadelphia, Pa.
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GREENHOUSE AND VERANDA SHADING.
W. H Dugan, New Rochelle, N. Y.
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HEATING EFFICIENCY AND ECONOMY.
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SNAPDRAGON.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
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SWEET PEA SEED.
Arthur T. Boddington, New York City.
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When a goose lays an egg, she just waddles off as if she was ashamed of it,—because she is a goose. When a hen lays an egg, she calls heaven and earth to witness it. The hen is a natural born advertiser. Hence the demand for hens' eggs exceeds the demand for goose eggs, and the hen has all the business she can attend to. —*Andrew Lang.*

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—Working foreman in commercial place, ten miles from Boston, to grow miscellaneous stock for retail trade. Good habits and sobriety essential. Address G. B., care HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED as gardener; life experience under glass and outside gardening. Very best references. Age, 26; nationality, English. "B. C.," care of HORTICULTURE.

POSITION WANTED—By experienced rose grower, Massachusetts preferred. Understands general greenhouse crops. Address A, care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

NEWS NOTES.

Rocky Ford, Col.—The Englewood Floral Co., of Denver, will open a branch here.

Sioux City, Ia.—J. W. Dunford has purchased the business of the Whiting Nursery Co.

Oswego, N. Y.—F. Penfold has bought out the interest of his partner, P. Leavens, and will continue the florist store at 102 East Bridge street.

Warren, R. I.—Wm. J. Faulkner, florist, has sold his place and will locate in Kearsarge, N. H., where he will continue business on a larger scale.

Rochester, N. Y.—By mutual consent, the firm of Hooker, Wyman & Co., has dissolved partnership. Horace Hooker, C. G. Hooker and Lewis Hooker will continue the business under the firm name of Hooker Bros.

Whitemarsh, Md.—On Wednesday evening, March 25, R. Vincent & Sons Co. gave a banquet to their employees. Tables were set for 100. R. A. Vincent was the toastmaster and T. Alvah Merritt, of Patapsco Neck, and John M. Rider, of Brooklyn, responded to toasts. Being Maryland Day, Mr. Merritt devoted his remarks to Maryland history. T. A. Vincent, who is postmaster of the House of Delegates, was called upon for a speech, and he gave an account of the workings of the Legislature. Musical selections and some recitations were included in the program.

Seattle, Wash.—Gains Edward Ramquist, 16 years old, son of Mr. and Mrs. Oscar E. Ramquist, a florist residing at 4806 Alki avenue, killed himself in an upstairs room at the family home on Sunday afternoon, March 22, by hanging. He fastened a towel around his neck, attached the other end to a door knob and then squatted on the floor. The body of the boy was found by one of his younger brothers shortly after 2 o'clock in the afternoon. The father said his son had been injured in the head some time ago and since that time has complained of constant headache. This is believed to have shattered his nerves and caused him to end his life.

MASSACHUSETTS AGRICULTURAL COLLEGE.

The short course class in floriculture has recently taken its annual trip to Boston to visit the markets, stores and greenhouse establishments in that vicinity. Three days were spent visiting the various places. The first day included visits to J. T. Butterworth at South Framingham, S. J. Goddard and Wm. R. Nicholson at Framingham and Robert Montgomery at Natick. An early start was made the next morning in order to see the Boston flower markets when business was in full swing. The remainder of the morning was spent in visiting the retail stores in the city; in the afternoon a trip was made to Peter Fisher's establishment at Ellis, Mass. On the last day the places visited were Thomas Roland's range at Nahant, William Sim's at Cliftondale, and Thomas Roland's range at Revere. This trip has come to be one of the features of the course since it gives the students an opportunity to see all phases of the florticultural industry.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 50 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:
$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

In a recent issue it was announced that John Chapman had leased the Spaulding greenhouses at Beverly Farms, Mass., and was to run them commercially. Mr. Chapman states, however, that the owners have decided not to operate the garden this year, and the position of superintendent being abolished, Mr. Chapman terminated his affiliation, with the good will and best wishes of the proprietors.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

Sold by the Seed Dealers

Office of ALFRED GOLDRING, Florist, Cobleskill, N. Y., March 17, 1914

HAMMOND'S SLUG-SHOT — I SLAY BUGS — 1880 — 1880 — KILLS INSECTS, SAVES FOLIAGE — TRADE MARK REGISTERED IN U.S. PAT. OFFICE

We use Hammond's **SLUG SHOT** on Currant Bushes in the Spring before the leaves are started. We put it on around the roots and have done it for two years, and find that the worms are killed before they get on the bush. For Potatoes we put on **Slug Shot** as soon as the bugs come, and we have good vines, plenty of tubers and no bugs. It is the best thing we have ever used. **For Sow Bugs in greenhouses it is sure death.** We had a lot of them before using Slug Shot, but they get out where it is used.

ALFRED GOLDRING.

Hammond's Paint & Slug Shot Works, BEACON, N. Y.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N. Y.



Ram's Head Guano

100 lbs. $2.00

WM. ELLIOTT & SONS

42 Vesey St., New York

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

BIG BLOOMS

and Strong Plants guaranteed. Mix DAVIDGE'S SPECIAL PHOSPHORUS with planting and potting soil. After roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

HUDSON CARBON CO., Ballston Spa, N. Y.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer loose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Norfolk, Va.—W. J. Newton, one house.

Pocasset, R. I.—Olney Williams, rebuilding.

Lynchburg, Va.—A. Brosch, carnation house.

Holyoke, Mass.—Hugh Clark, 225 Maple street.

Ardmore, Pa.—Primrose Flower Shop, one house.

Conneaut, O.—Cummins Canning Co., house 28x150.

Redford, Mich.—Detroit Greenhouse Co., house 28x150.

Fairhaven, Mass.—Peter Murray, three 160 ft. houses.

Austin, Tex.—E. Friedrich, 1313 E. 6th street, house 40x90.

Woonsocket, R. I.—Chas. E. Allen, Brier street, one house.

Marshalltown, Ia.—James L. Dunmead, range of houses.

Auburn, R. I.—J. A. Budlong & Son, six houses, each 23x235.

North Stoughton, Mass.—Charles Walters, range of houses.

Sterling, Colo.—Sterling Greenhouse & Gardens, one rose house.

Brockton, Mass.—Elmer E. Blood, 310 Grove street, one house.

Newport, R. I.—Frederick S. Franco, Grafton street, house 16x16.

Philadelphia, Pa.—Otto Walther, 7006 N. 12th street, one house.

Marblehead, Mass.—Henry L. Martin, Cemetery Road, one house.

Ashtabula, O.—Dunbar-Hopkins Co., Woodman, Ave., range of houses.

Worcester, Mass.—House of Correction, Summer street, house, 19x37.

Niagara Falls, Ont.—Queen Victoria Park Commissioners, Horseshoe Falls Park, conservatory.

Danville, Ill.—Edgar Osborne, Spring Hill Cemetery, two houses each 24x104; two houses each 18x42.

NEWS NOTES.

Petoskey, Mich.—E. T. Hammond has closed his greenhouse and gone out of business.

Dreshertown, Pa.—Michael Rago has sold his greenhouse to the Penn. Farm School for Women.

Sturgeon Bay, Wis.—Frank Welter has purchased the P. G. Swan greenhouses and will enlarge the business.

Maquoketa, Ia.—W. I. Hill has purchased the Odger Greenhouses and business and will move the greenhouses down town.

Lexington, Mass.—Norris F. Comley has sold his greenhouses on Bedford street to George Rice of Framingham. Besides the greenhouses are six acres of highly cultivated land and a large house. Mr. Comley, with his family, has moved to his new place in Burlington.

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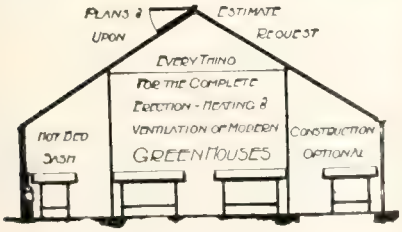
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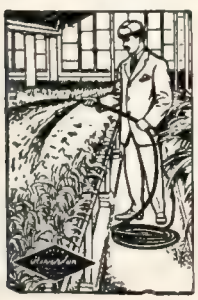
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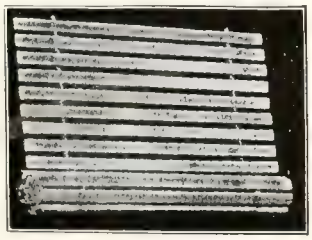
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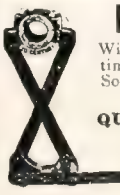
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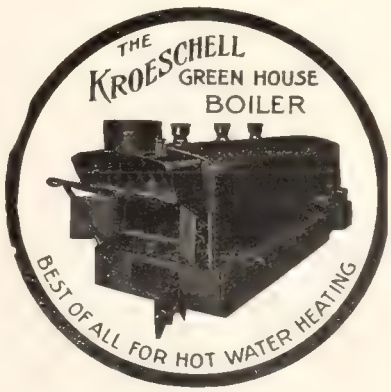
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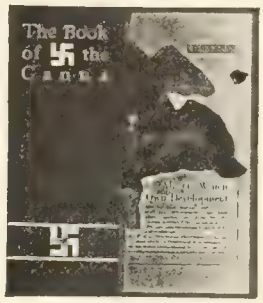
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

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Care of Allamandas

In order to have these plants in a nice compact form they will need tying and staking from time to time. As they grow they will become crowded and should be spaced quite often to let the sun and air around them. When their pots are full of active roots they will need lots of water. Give them plenty of syringing until well filled with bloom and about twice a week give liquid manure water. They should never be allowed to go below 65 degrees at night and with sun they can be allowed to run up 15 to 20 degrees more. Keep the atmosphere moist by wetting down the paths and under the benches two or three times a day. To increase stock place soft-wooded cuttings in the warmest propagating bed you have, as they should have at least 75 degrees bottom heat to root well.

Ferns

The best way to grow fern spores is to sow them in pans. A soil for small ferns should be a mixture of sandy peat or turfy loam and leaf mold. The temperature is right if held at the point of 60 degrees, as near as possible, the whole year through. Air is necessary to counteract stagnation, but strong drafts are death to tender, young fern-growth. A light shading during the brightest hours of cloudless days from about now until the end of October is good for all ferns.

Ramblers for Easter 1915

In order to have Rambler roses form good bushy plants, start now and get some one year old plants. They should be cut back so they will have three or four strong eyes to break from. I think it is better to pot them into their flowering size now. Do not overlook the fact that they should have a well prepared compost to make fine flowering wood, say a fibrous sod that has been mixed with manure at the rate of three to one and to every barrow load add a 5-inch pot of bone meal, and another of wood ashes. Always see that pots are given good drainage. These can be started in a house that stands at about 50 degrees at night. Syringe them every good day, but give water carefully until root action has started good. They can be grown underglass until July or August.

Planting Gladioli

Have a good piece of ground and see that the soil is worked deep and that there is plenty of well-decayed manure worked into it. It would be well to sort the corms over and plant all the small ones at the first planting leaving the largest for the last planting. You can make a succession of plantings from the middle of April until the end of June. Plant them from 2 to 3 feet apart in the rows, leaving about 3 to 4 inches between the bulbs in the rows. They should be planted at least four inches deep. When they show above the ground keep the cultivator going every week until they have reached a height of about 8 inches. Just before the last cultivation give some quick acting fertilizer between the rows—it can be put on at the rate of three or four hundred pounds per acre.

Sowing Campanulas

Campanulas can be brought into bloom from the middle of April and up to Memorial Day when they are seen in perfection. Canterbury bell, cup-and-saucer (calycanthema) has proved itself indispensable. Other varieties have been tried, but they do not respond to culture under glass as this one does. Get some seed of the white and pink varieties and sow now in flats or pans in equal parts of loam and leaf-mold with a little sand. On this sow the seed, cover and press firmly. Give them a warm house until they show signs of coming up, when they should be placed in a light and cool house that runs from 45 to 50 degrees at night. When large enough prick out or pot off. When May comes they can be planted out in the field, giving them about 15 inches between the plants and with proper cultivation you can grow fine strong clumps by October.

Ripening up Freesias

By giving these little bulblets a little care while they are ripening up they will finish up their growth so as to leave good strong bulbs for future use. Withhold water gradually until the tops are all ripened up, when they can be shaken out, sorted and stored away until they are wanted again.

Mr. Farrell's next notes will be on the following: Asters; Begonia incarnata; Cyclamen; Gloxinias; Orchids; Winter Geraniums.

As an Advertising Medium Horticulture has NO superior. Because they ALL read it. And they read it ALL.

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To the credit of New York

The New York Flower Show promoters, individually and as organizations, are entitled to sincere congratulations on their success in at last demonstrating that New York can pull off a big exhibition and make it a financial as well as artistic and instructive success. The project to attempt this, without outside help other than exhibits, was undertaken with considerable misgiving and the full realization that failure would sound the death-knell of popular floral exhibitions in the metropolis for years to come and a deplorable loss to the cause of horticulture. The result was better than its sponsors dared to hope, knowing well the many discomfitures of the past. Undoubtedly the dominant element in the success achieved was the wide, personal interest displayed, the harmony and accord which prevailed between the many contributing factors—amateur, professional, and every commercial element. The potency of co-operation and the invincible strength of united determination was given a splendid practical demonstration in this well-conducted enterprise.

A gain for the Easter cut flower

Valuable lessons may be learned from a careful perusal and study of the various Easter reports from leading trade centres as presented in this issue. It will be noticed that while the stories of the demand in different localities are widely variant in many respects yet in a broad aspect they have much in common. In the newer communities we have invariably found the experiences to parallel those which the more advanced places have gone through a number of years previous. The most significant feature of the Easter business of the past few years in those centres which, in a measure, set the pace in floral fashions for the rest, has been the drift of preference for pot plant material over cut flowers, which in each succeeding year seemed to grow apace, the cut flower becoming less and less of a factor. But now it would appear that the current has at last been arrested and in some important places the cut flower demand has apparently given the plant trade advance a serious check. We noticed this tendency last year not only at Easter but at Christmas and it certainly has made emphatic headway in the interim. In those sections where the turn in the tide is not yet felt the cut flower people should be able, in our humble opinion, to extract considerable comfort from a study of the returns and what they probably indicate.

Vicissitudes of the Easter lily

The Easter cut flower industry has had to go through some tough experiences in recent years. The lessons thus learned should prove valuable and must be heeded if the revival now evidently started is to be really permanent and the holiday flower business to enjoy its fair proportion of the popular favor. There is no need to discuss further now the suicidal policies of the past. They are well known. Returning to our consideration of the developments of this year's Easter we must say that when we expressed the opinion a few weeks ago that the lily crop in the leading eastern markets would be fully adequate for all requirements, we had no idea of the enormous excess of adequateness in the supply of this great Easter specialty which was in prospect. Naturally there are varying explanations for this unprecedented and very unwelcome redundance of lilies but it may reasonably be assumed that the abundance of these flowers continuously all the year round, as has come to be the case, has had more or less effect in depreciating their standing as a distinctively Easter specialty. With the rivalry of new and beautiful roses, hydrangeas and other bright and irresistible claimants for public favor, a full restoration of the longiflorum lily to its former Easter glory and pre-eminence would seem a far-off proposition, although its symbolic character will always bring it a certain prestige. Its value at Easter or any other time is likely to depend more on quality hereafter than was the case in the past when, too often, any lily was a lily.

"THE GARDENERS' PROBLEM."

Editor HORTICULTURE:—

The communication headed "The Gardeners' Problem," appearing in last week's issue of HORTICULTURE, signed by George C. Watson, in which he comments on the executive meeting of the National Association of Gardeners, held in Philadelphia recently, would lead one, not familiar with the facts, to infer that the meeting was primarily devoted, and excitedly so, to an attempt to solve the gardeners' wage problem. In reality reference to it was only made incidental with the report submitted of the good work which is being done by the association's service bureau. In connection with it some existing conditions were brought to light indicating that men within the gardening profession are as much responsible for the poor compensation that comes to some of them as are the owners of the estates on whom Mr. Watson chooses to place the entire blame.

As an instance I will cite a case which was brought to our notice during the past few weeks. An owner of a rather extensive estate not far from New York sought a superintendent, offering $125 in salary with cottage and usual privileges. A competent gardener was recommended, but he would not consider the position at a salary less than $150. After several days' consideration the owner finally decided to engage the gardener at the figure he asked. In the meantime it became noised about the vacancy existed and the day after the gardener referred to, was engaged, applications for the position commenced to pour into the owner. Some sixty odd applications were received in which "salary expected" was specified and the highest asked to manage this estate was $75 and from that down to $50. One applicant offered to take the position for $40 and if "hired" he would show the owner how to make the place pay. It took quite some "educating" to convince that owner that there had not been a slump in superintendent salaries and that he had not made a serious mistake in accepting a man who had even demanded more than what he was inclined to give.

On the other hand the receipt of applications of a similar nature as those just described resulted in a position of manager of an estate of over a thousand acres being filled at $75 per month. The former manager is reported to have received $175 a month. No doubt the man who now fills the position considers himself well paid and would be, on a place where he could probably make good, placed in charge of a few acres of lawn, flower, and vegetable gardens.

Many more instances of like nature could be related that occurred this spring and the standard of the profession of gardening is not raised by the men professing it as their calling who will apply for a position of manager or superintendent (and for which they are in every way unfitted), simply because they are looking for a job and don't care where they land so long as they land at any salary without regard as to the responsibilities they undertake to assume. Their action can only serve to spoil good opportunities for capable men who would fill the positions with credit to their profession. And the owners of estates who will employ these men at salaries entirely inadequate to the services expected to be rendered, usually get what is coming to them; the despoliation of their estates through inexperienced management, and sometimes worse, the incurring of heavy expenditures, often unnecessary, through irregular practices.

Our friend Watson, in making the suggestions he does reminds me of the fellow on the outside looking in, but who has not had the insight on what is going on, that the insider possesses. For his suggested campaign of education among estate owners is something that has been practiced through one of the departments of our organization with most encouraging results for more than a year past. Through its efforts superintendents, gardeners and assistants have already benefited, and through the proposed co-operation with local societies this campaign of education is to be spread broadcast to bring to the notice of those who require the services of gardeners, that the profession of gardening is no different than any other profession—that in it are to be found men who are most efficient in their calling, and men who are quite inefficient—that when the services of a gardener are required judgment should be exercised in the selection of the gardener and proper consideration should be given to the compensation offered for the services to be rendered — that remuneration should be in full proportion to the responsibilities of the position. The owners who recognize that "every man is worthy of his hire" will have little difficulty in securing gardeners who will not only manage their estates capably, but who will also make them a genuine pleasure to maintain.

The sagacious advice that the legitimate work of the N. A. G., really is in educating the employers what a minimum wage ought to be, will not be accepted. The members of the executive board possess sufficient wisdom to avoid everything that may pertain to politics, religion or the regulation of labor.

The National Association of Gardeners recognize gardening solely as a profession, and its aim is to elevate this profession, not by regulation, but through education. No better means or methods can be found to accomplish this than through co-operation between the various organizations interested in the welfare of the profession and in those who follow its calling.

M. C. EBEL, Secy.

National Association of Gardeners.

EASTER CHAPEL DECORATION AT WELLESLEY COLLEGE, MASS.



The accompanying picture shows only the central group of the decoration at Houghton Chapel, Wellesley College on Easter Sunday, this having been flanked with groups of palms and lilies on either side of the platform. The arrangement is most commendable for the simplicity and good taste displayed by the college gardener T. T. Watt in its make-up.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The meeting of the New York Florists' Club on Monday evening, April 13, was exceptionally well attended, one reason therefor being the interest of the members in the promised report of the Flower Show Committee on the recent Spring Exhibition. The report as presented by Chairman F. R. Pierson was certainly a gratifying one. It showed gross receipts from all sources of $27,310, of which $11,000 came from sale of admission tickets. Treasurer F. H. Traendly gave his report in detail, showing a balance of $1185 to divide between the club and the Horticultural Society of New York as net profit after paying out nearly $10,000 in premiums and $10,000 to the Exposition Company on account of rental and other expenses. The guarantors had not been called upon for any assessment.

After some congratulatory remarks by several members, a motion was adopted for the appointment of a committee with power to act in conjunction with a similar committee of the Horticultural Society of New York to make arrangements to hold a similar show in the spring of 1915. Unanimous votes of thanks were passed for the Flower Show Committee, in recognition of its splendid work; to Julius Roehrs Co., for the loan of palms, etc., for decoration of the exhibition hall; to Jos. A. Manda, for his efficiency as superintendent, and to A. H. Hews Co., for the loan of 5,000 flower pot saucers. The action in extending the duration of the show beyond the time originally specified was declared by Manager Jos. A. Manda to have been a mistake. Wallace R. Pierson took the same ground, saying that it was a serious matter to ask people to pay to see dead flowers. The outcome of the discussion was a vote that it was the sense of the meeting that seven days should be the maximum limit of future exhibitions.

Doctor Headley, State Entomologist, of New Jersey had been announced to give an illustrated lecture on insect pests and their control. The lecturer was on hand and gave an interesting and useful address, but the stereopticon annex failed to appear and so the illustrations were unfortunately missed.

The sum of $50 was voted for the American Sweet Pea Society, which is to hold its summer exhibition this year in New York. Fourteen new members were accepted and ten more were proposed.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

A well attended meeting of this society was held in Doran's Hall, Greenwich, Conn., Friday evening, April 10th. The Summer Show committee reported that the show will be held June 19th-20th on the hospital grounds at Portchester, N. Y. The Fall Show committee reported that this show will be held at New Rochelle, N. Y., the date to be announced later. A number of letters were read from business firms and others offering cash and other prizes to be added to the premium list. John Shore, who was a visitor, spoke of the advancement of horticulture in America, he having over fifty years' experience as a gardener, knows whereof he speaks. Maurice Fuld spoke of the benefits the horticultural societies could derive by cooperation with the Garden Club movement. John M. Brown congratulated the society as a body for the excellent showing made at the big Spring Show in New York, its members having been successful in carrying off eighteen first prizes, eight second prizes, two certificates of merit and two silver medals. It was announced that John K. M. L. Farquhar of Boston would give a lecture on "Gardens" shortly. Due notice will be given as to the exact date.

The exhibition tables were loaded down with a choice and varied display, the judges report was as follows: Cultural certificate to Owen A. Hunwick, antirrhinums, 6 ft. stems; cultural certificate to Thos. Aitchison for Dendrobium chrysotoxem; specimen marguerite from Oscar Addor, highly commended; honorable mention to A. Kirkpatrick for Silver Pink snapdragon; vote of thanks for carnation Northport and Alma Ward, from Jas. Limane; White Enchantress from A. Kirkpatrick; Salmon Beauty from W. H. Watermoneki; tulips El Toreador, from P. W. Popp. Oscar Addor entertained the members by reading a very clever paper replete with humor and satire that was greatly enjoyed. A hearty vote of thanks was accorded him. The next meeting of the society will be held May 8th. P. W. Popp

NEWPORT HORTICULTURAL SOCIETY.

The first gathering of this society at Music Hall, its new meeting place, was well attended by members, their families and friends, on April 14th. Arrangements had previously been made for a social evening with vocal and instrumental music, dancing and refreshments, all proving to be a great success. Appropriate remarks of welcome by President MacKay and an address by Treasurer A. K. McMahon at the opening were also features of the gathering.

Besides some decorations to the stage with well flowered primula plants, a vase of superb antirrhinum stood in the centre of the hall, each spike being over six feet in length, and some over seven feet, with over fifty flowers on each. The colors varied from pure white to dark crimson. A committee was appointed by the president to examine and report on this exhibit and a silver medal, the highest award of the society, was given. John B. Urquhart, gardener for Mr. R. L. Beekman was the exhibitor. J. Robertson.

The Premium List is out for the June Exhibition by the Newport Garden Association in conjunction with the Newport Horticultural Society. The exhibition will take place June 24th-26th, on the grounds of Senator Wetmore on Bellevue Ave., Newport. Copies of the premium list can be obtained from William Gray, Bellevue Ave., Newport, R. I.

NATIONAL ASSOCIATION OF GARDENERS.

Meeting of Executive Board.

The spring meeting of the Executive Board of the National Association of Gardeners was held in Horticultural Hall, Philadelphia, on Tuesday, April 7th. There were present John W. Everitt, Glen Cove, N. Y.; James MacMachan, Tuxedo Park, N. Y.; Robert Bottomley, New Canaan, Conn.; Arthur Smith, Reading, Pa.; M. C. Ebel, Madison, N. J.; Thomas Logan, Jenkintown, Pa.; William Kleinheinz, Ogontz, Pa.; John Dodds, Wyncote, Pa. In the absence of President Waite, Vice-President Everitt occupied the chair.

The following resolution was adopted:

"The response to the communication on cooperation recently addressed to the local horticultural societies by the National Association of Gardeners has been so favorable, it is the sense of the members of the executive board present, that definite action should be taken to inaugurate the cooperative movement between the national association and the various local horticultural societies, who may desire to unite with it to advance the interest of horticulture and the profession of gardening.

"Be it resolved, therefore, that the secretary be instructed to address the various local societies, inviting those interested in our endeavor, to appoint committees of three to be known as the cooperative committee of the local society of which they are appointed. These committees will act with the cooperative committee of the National Association of Gardeners to be composed of the president, vice-president, treasurer and secretary of the National Association and to be known as the National Cooperative Committee.

"The National Committee shall inform itself through the local cooperative committee of the workings and doings of the different local organizations and gather such information as may be of interest and value to local horticultural bodies in their operations, and shall disseminate such information as it may acquire among the societies cooperating with it. Through such an interchange of views and experiences, the successful efforts of local societies in their various undertakings will be imparted to sister societies by which they can benefit and their scope of effective work be increased.

"The National Committee is further empowered to enter into cooperation with local horticultural societies, in the broadest sense that the word "cooperation" may imply, to spread the interest in horticulture. And to devise ways and means by which the various local societies shall have actual representation at the annual conventions of the National Association of Gardeners, where they may come together and work out the problems which confront the profession of gardening."

It was decided to continue the campaign to exploit the association's Service Bureau to make known to estate owners and others requiring the service of capable gardeners that they can obtain efficient men engaged in the profession through the Bureau. By continuing this campaign the association hopes to gradually eliminate the class of so-called gardeners entirely unqualified by experience or knowledge to manage positions they apply for, and which class is proving so detrimental to the profession as a whole.

In order that members of the Executive Board who, owing to distance, cannot always attend the meetings may have an opportunity to participate in them and to make suggestions in connections with, and offer opinions upon the policy of, the association, a resolution was adopted that an invita-

TWO STERLING TULIPS.



In the opinion of a keen, close and experienced observer, two of the finest tulips in existence today are the new varieties President Cleveland, pink, and Rising Sun, yellow. Both won first in their class at the spring flower show in Philadelphia for the Waterer prizes, the exhibitor being Wm. Kleinheinz.

We are indebted to the Philadelphia Record for the two cuts representing the tulips mentioned. For daily newspaper use a much coarser "screen" is necessary in making engravings than is used in HORTICULTURE and similar publications.

tion be extended to members of the board, that when they cannot attend a meeting they submit any suggestion they may have to offer in writing, and and that it shall be given the same consideration as though the member offering it were present in person.

The secretary's financial report showed the association to be in fine financial condition with a substantial surplus in the bank.

Messrs. T. A. Havemeyer and F. R. Newbold, of New York, were elected to honorary membership in recognition of their valuable services rendered in the management of the recent successful New York Flower Show.

Following a general discussion, the board adjourned to meet in Boston during the month of August. Before adjournment a vote of thanks was tendered the Pennsylvania Horticultural Society for the use of its offices. The visiting members later became the guests of the local members of the board at one of the hotels where, while enjoying a wholesome repast, they were entertained by the relating of reminiscences of bothy experiences.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The meeting of the club on the 7th inst. was largely attended. The various instructive entertainments which have been lavishly supplied at the meetings have resulted in greatly swelling the attendance.

The matter of affiliation with the S. A. F. was discussed, and while the sentiment was favorable towards the S. A. F., yet there seemed no enthusiasm over the idea of the club, as a club, affiliating. A letter was read from Richard Vincent, Jr., proposing that the Pittsburgh club join with the Baltimore and Washington clubs in making the trip to Boston from Baltimore by steamer at the time of the S. A. F. convention in August. The matter was taken under consideration, but it was felt that it was yet too early for any decided action.

The New York Spring Flower Show was most favorably discussed, the display of orchids being termed magnificent. Notice was taken of the appointment of Wm. Plumb, of New York, as superintendent of floriculture of the Panama-Pacific Exposition, and the secretary was instructed to write to Mr. Plumb expressing the good wishes of the club, and also to the Exposition management congratulating them on their good fortune in securing the services of Mr. Plumb.

Jno. Rigg, gardener for Capt. Shields of Sewickley, showed samples of a cheap fertilizer prepared by the Captain. The theory on which Capt. Shields worked in preparing his fertilizer was to try to reproduce the wonderfully fertile soil which gave the luxuriant vegetation of the coal age. Samples of the fertilizer were taken by different members for trial.

There was a varied collection of blooms, which received recognition as follows:

Cultural certificate to M. J. Harris, gardener for Dr. Shafer, of Pittsburgh, for laelias and cypripediums; certificate of merit to T. Tyler, gardener for Mr. Armstrong, of Pittsburgh, for collection of orchids; cultural certificates to Fred Bartsch, of Glenshaw, Pa., for group of cinerarias; P. S. Randolph & Sons, Verona, Pa., for French hydrangeas; Bureau of Parks, N. S. Pittsburgh, for spiraeas and hydrangeas; Bureau of Parks, Schenley Park, Pittsburgh, for lilies and daffodils. In this collection of daffodils, Van Waveren's Giant was remarkable for size and vigor.

H. P. JOSLIN, Sec'y.

PROPOSED TEXAS STATE ORGANIZATION.

The idea of having a State organization of florists originated with Tom Wolfe of Waco and R. C. Kerr of Houston. Both are very enthusiastic as to the outcome, and they believe the new organization will enter the field with a large membership. It is intended to have branches in all the cities of importance in Texas, each to submit a report of the State organization at the annual meeting.

Mr. Kerr, acting as chairman of the State Committee on Organization, has been doing some active campaigning, with the result that in San Antonio, Fort Worth, Houston and Dallas, local florists' clubs have already been formed, with the enthusiastic support of the leading growers and retailers, nurserymen and others in each place.

The first State meeting will be held at Waco, Texas, on May 4 and 5, and a strong representation from all parts of the State is expected.

CLUB AND SOCIETY NOTES.

A movement has been started to organize a florists' association in Nashville, Tenn.

W. N. Craig, of Brookline, Mass., addressed the members of the Salem Women's Club on Wednesday afternoon, April 8, his subject being "Practical Floriculture." A large audience enjoyed the lecture.

The Eighth Annual Show of the North Shore Horticultural Society of Lake Forest, Ill., will take place at Durand Art Institute, third week in July, 1914. Copies of the preliminary premium list may be had by applying to E. Bollinger, Sec'y, Lake Forest, Ill.

The Terre Haute Florists' Association held a meeting at the Chamber of Commerce building on the evening of April 2. Election of officers resulted in the choice of F. Heinl, president; Henry Graham, vice-president; N. B. Stover, secretary; Fred Walker, treasurer; all re-elected.

At the meeting of the Elberon (N. J.), Horticultural Society held on Monday evening, April 6, a cultural certificate was awarded to Robert Allen for a trained specimen of Rose Hiawatha, also a cultural certificate to John Clunas for a specimen cattleya. The schedule of the chrysanthemum show to be held November 3, 4 and 5 at Asbury Park, was adopted and ordered sent to the printer for early distribution. WM. BRYAN, Asst. Sec.

Officers were elected at a meeting of the Florists' Club of Dayton, Ohio, Thursday night, April 2. The result of the balloting was that George Bartholomew was chosen president, Arthur Schmidt was re-elected vice-president and Horace Frank again chosen for the office of secretary and treasurer. Plans for the annual banquet were discussed and it was decided to hold it some time after Easter, the time and place to be decided upon later.

At the regular monthly meeting of the New Jersey Floricultural Society held in Orange, N. J., on April 6, it was decided to hold the annual fruit, vegetable, dahlia and gladiolus show in October and to make same the event of the season. The society will also hold a sweet pea show in July.

A prize was awarded to Sidney and A. M. Colgate for Tricopelia suavis. Also to Mrs. Henry Graves for Cattleya Schroederae and to Peter Hauck, Jr., for a specimen genista.

The society wishes to thank the various seed houses that so kindly donated to the October Show, 1914.

GEO. W. STRANGE, Secy.

New Haven, Conn.—Transfers in the towns of Orange and Milford to the Elm City Nursery company have been recorded of several valuable tracts of land immediately adjoining the Woodmont railroad station. The Elm City Nursery company will start to develop this property right away, establishing as fast as possible one of the largest and best equipped nurseries in the country. Business headquarters will remain for the present at Edgewood, Westville.

Obituary

Mrs. Charles E. Keith.

Mrs. Charles E. Keith, widow of the late superintendent of the parks of Bridgeport, Conn., died on March 15. She leaves two sons and one daughter.

William E. Wise.

William E. Wise, 67 years of age, who for many years has been employed at the Propagating Gardens, Washington, D. C., died last week at his late home, 1013 Fourteenth Street. Funeral services were held at St. Vincent de Paul's Church. He leaves two children, Arthur Wise and Mrs. Grace Johnson.

Charles Koelker.

Charles Koelker, head of the firm of Charles Koelker & Sons, florists, a resident of Toledo, Ohio, 46 years, died Friday morning, April 3, at his home, 1702 Cherry street, aged 65. Mr. Koelker was born in Muhlhausen, Westphalia, Germany. In 1874, with two brothers, he came to Toledo. They engaged in the merchants tailoring business, but on account of failing health, Charles withdrew from the firm 10 years ago, and with his two sons, engaged in the florist business, with greenhouses in West Toledo and salesroom on St. Clair street.

Theodore L. Ewoldt.

Theodore L. Ewoldt, one of the best known florists of the Tri-Cities, died at the home of his brother, Frank in Davenport, Ia., after an illness of several months duration, aged 36 years. The cause of death was Bright's disease. A few days ago, Mr. Ewoldt showed much improvement and there were hopes of his recovery, but he became worse and died at 2:30 o'clock on the morning of April 8th. Mr. Ewoldt's father had died only the previous Saturday, April 4th, and was buried on Monday, April 6th.

Mr. Ewoldt was a charter member of the Tri-City Florists' Club and has at various times held the office of president, secretary, and some of the minor offices. He was one of those members who put life and activity in the club and will be greatly missed by its members. The funeral was held from the Elks' Club rooms, Friday, April 10th, with interment at Pine Hill cemetery. WM. GOOS,

Sec. T. C. F. Club.

BOTANICAL GARDENS FOR UNIVERSITY OF CHICAGO.

The largest botanical gardens maintained by any institution in the United States will be established in the near future in connection with the University of Chicago campus, if plans as announced are carried out. Laboratories and accommodations for the transplanting of rare flora will be maintained. The gardens will contain a large fernery and hidden grottoes, dells and sloping terraces. Many apartment houses and cottages on the site of the new garden will be razed within a few weeks. The gardens will be in charge of the botany department and the school of science of the university.

MASSACHUSETTS AGRICULTURAL COLLEGE.

A party of seven from the Massachusetts Agricultural College made a trip to New York to visit the Flower Show on Wednesday and Thursday. The party consisted of Professor A. H. Nehrling, the head of the Floricultural Department, C. L. Thayer, graduate assistant, and several of the Seniors majoring in Floriculture,—G. A. Reid, H. W. Levine, S. L. Freedman, R. Cushman and A. S. Thurston.

The trip was purely for educational purposes, to give the students an opportunity to become acquainted with a larger number of plants, to study the methods of staging the exhibits, to become familiar with the important firms in the profession, and also to meet personally some of the prominent men. This is one of the many advantages which the students taking Floriculture at the Massachusetts Agricultural College have, since the college is located in the horticultural section of the United States. The students enjoyed many courtesies, being addressed by such men as Benjamin Hammond, Secretary of the American Rose Society, John Young, Secretary of the Society of American Florists, Fred Lautenschlager, of the Kroeschell Boiler Company, Chicago, I. S. Hendrickson of John Lewis Childs, who gave them information on many of the new varieties of gladioli, and W. R. Pierson of Cromwell, Conn.

ARBORETUM FIELD CLASS.

Mr. J. G. Jack will conduct a field class at the Arnold Arboretum on Saturdays during the spring and early summer, to assist those who wish to gain a more intimate knowledge of the native and foreign trees and shrubs which grow in New England. The instruction will be given in informal outdoor talks and examination of the plants. Different botanical groups will be examined at each meeting, although any trees or shrubs found may form subjects for study. The aim is to assist in showing the difference and the means of identification of the trees and shrubs, and to give information regarding their ornamental and useful properties, habits of growth, and other features which members of the class may desire to know. Unless otherwise notified the class will meet promptly at 10 o'clock in the morning on Saturdays in the Arboretum, at the Forest Hills entrance. Upon days too stormy for good field work the class will meet in the lecture room of the Bussey Institution, near the Forest Hills entrance to the Arboretum, where a talk upon trees, with illustrations, will be given. The class will open Saturday, April 18, and close June 27. Two hours will be devoted to each meeting. The course is open to both men and women.

BUSINESS TROUBLES.

Sigmund Kaufman, florist, Milwaukee, Wis., filed a voluntary petition in bankruptcy April 6, scheduling his liabilities at $3,687.09 and his assets at $2,332. He claims exemption on $1,800.

A petition in bankruptcy was filed in the United States District Court on April 4 by A. H. Bucharach, a nurseryman, with debts of $26,751 and assets of $50,978.

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SWEET PEA YARRAWA.

Since published the illustrations and descriptions of the sensational sweet pea Yarrawa, last week, we have learned more about its origin. We assumed it to be one of Burpee's introductions, that gentleman having kindly sent us the photographs, but we find it to have originated in Australia. The following extract from "The Garden," London, England, may interest our readers:

A New Race of Winter or Early Flowering Sweet Peas.

More than eighteen months ago, I was told by Mr. Arthur Yates, of Sydney, Australia, that a very precocious sport had recently appeared there among some ordinary Spencers. The seed had been saved, and a wonderfully early flowering strain had resulted. This is known in Australia as the Yarrawa Spencer, and has been a decided acquisition in such warm climates as that of Sydney, for if seed be sown in late summer or early autumn, the plants will begin to bloom in two months from the time of sowing, and continue in flower for some two or three months longer; in fact, until the hot weather begins. This strain has now been crossed with the older winter-flowering varieties, with the result that a large and vigorous race has been obtained, which is further distinguished by well-formed blooms of much substance. The name "Concord Hybrids" has been given to it, and it is said by the raiser to be superior to the Algerian one of Arkwright, the American of Zvolanek, or of the British of Engelmann. I am going to try these Australian seeds this spring, and I hope to send an account of them later on in the year. It seems to me that a public trial of these various early flowering strains that are now before the public would be most useful. Why should not the Royal Horticultural Society be asked to find room for a small representative collection of each of them, and grow some in pots under glass and some in the open? I find these early sweet peas so very useful, and I would like to know which is the best. JOSEPH JACOB.

PRIMULA MALACOIDES.

In the brief time since its introduction this dainty primrose has rapidly acquired widespread popularity among the florist trade. The fine specimen which is depicted on our cover page this week was grown by E. Yeandle, superintendent of "The Oaks," Morris Plains, N. J. It was grown from Bod dington seed and to that firm we are indebted for the photograph which we have reproduced.

Newport, R. I.—The large flower show, to be held in Newport in August, will be terminated with a brilliant illumination of the grounds and a ball at the home of a prominent society woman, whose identity is not yet disclosed. Plans for the show are being made by Francis L. V. Hoppin of New York, who has arranged previous out-of-door events in Newport.

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Lilium Giganteum

	Per 100	Per 1000
7-9 in. (300 bulbs to case)	$7.00	$60.00
8-9 in. (250 bulbs to case)	$8.50	$75.00

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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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HELIOTROPE, fine short bushy plants, 2¼ in., $1.75 per 100; $15.00 per 1000.
COLEUS, Golden Bedder and Verschaffelti or mixed R. C., 60c. per 100; $5.00 per 1000.
LOBELIA, Katherine Mallard, dwarf double R. C., $1.00 per 100; 2¼ in. pot, $1.75 per 100.
FUCHSIAS, 2¼ in. pot, $1.75 per 100; $15.00 per 1000.
FEVERFEW, Little Gem, $2.00 per 100.
VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.
AGERATUM, 2¼ in. pot, $1.50 per 100; $12.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.
ASPARAGUS PLUMOSUS, 4 in. pot, $6.00 per 100 strong.
DRACAENA INDIVISA, 4 in. pot, $8.00 per 100.
ENGLISH IVY, R. C. $1.50 per 100.
ACHYRANTHES LINDENII, 2¼ in. pot, $1.50 per 100.
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AVALANCHE. A splendid, large, white with a well established reputation; an easy variety to force.

BOTANISTE PELTEREAU. Enormous flowers of a pretty mauve rose.

BOUQUET ROSE. Large trusses of rosy amber, turning to bright pink; a favorite with all growers.

DENTELLE. Entirely distinct, deeply fringed flower of a creamy-white color; it is not suited for forcing; but for Decoration Day and later flowering it is very valuable.

E. G. HILL. This is by far the best pink variety for early forcing that we have yet tried. Trusses of immense size; color a most pleasing shade of pink which does not fade; growth vigorous, foliage of a pea-green color large and attractive. It is one of the easiest to force, coming into flower as early as Mme. Emile Mouillere.

FRAICHEUR. Very large, regularly shaped flowers, white, delicately suffused with rose; very free flowering.

GENERAL DE VIBRAYE. A favorite wherever seen; very large heads of bright rose-colored flowers; a splendid early forcing variety.

LA LORRAINE. Very large flowers, pale rose, turning to bright pink; has become a general favorite.

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MME. MAURICE HAMAR. A delicate flesh-rose color. A vigorous grower, the individual flowers as well as the trusses being very large. One of the easist to force early.

MME. RAYMOND. Large trusses of perfectly round flowers of a transparent white, passing to a tender rose.

MLLE. AGNES BARILLET. A splendid white; flowers large and very freely produced.

MLLE. DE TREMAULT. As the result of our own trials, we are convinced that this variety is the best very large-flowered white yet introduced. As free flowering as any, of splendid, erect habit, producing flower heads as large as the old popular Otaksa.

MLLE. RENEE GAILLARD. Very large panicles of milky white, irregularly dentated flowers.

MOUSSELINE. A beautiful mauve rose, with cream-colored center; the flower heads are large and held erect; a fine acquisition.

MONT ROSE. Immense panicles of clear flesh rose, entirely distinct. One of the best very early-flowering varieties.

MONS. G. RENAULT. Very large flowers of a bright rose, with carmine reflex; very free and easily forced.

ORNEMENT. Large, pretty mauve-pink flowers; very free flowering.

RADIANT. At the International Show in New York last spring, Radiant was the one variety which attracted much attention. It is an easy variety to force, of a splendid, rich, live rose carmine, entirely distinct from all others.

RONSARD. Flowers and trusses very large, of a beautiful rose tint.

SOUVENIR DE MME. E. CHAUTARD. One of the very best, of splendid, erect habit, very robust, medium-sized heads, of bright rose-colored flowers; one of the very best of the Bouquet Rose type.

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Bouquet Rose	$1.00	$7.00	2.50	20.00	4.00	30.00	...
Dentelle	....	....	2.50	20.00	4.00	30.00	.50
E. G. Hill	2.50	20.00	4.00	30.00	....	....	...
Fraicheur	....	....	2.50	20.00	4.00	30.00	.50
General de Vibraye	1.25	8.00	2.50	20.00	....	....	...
La Lorraine	1.25	8.00	2.50	20.00	....	....	.50
Mme. A. Riverain	....	....	2.50	20.00	4.00	30.00	...
Mme. E. Mouillere	1.25	8.00	2.50	20.00	4.00	30.00	...
Mme. Maurice Hamar	1.00	7.00	2.50	20.00	4.00	30.00	...
Mme. Raymond	....	....	2.50	20.00	4.00	30.00	.50

	3-in. pots		5-in. pots		6-in. pots		7-in. pots
	Doz.	100	Doz.	100	Doz.	100	Each
Mlle. Agnes Barillet	....	....	$2.50	$20.00	$4.00	$30.00	$0.50
Mlle. de Tremault	....	....	2.50	20.00	4.00	30.00	.50
Mlle. Renee Gaillard	$1.00	$7.00	2.50	20.00	4.00	30.00	.50
Mons. G. Renault	1.25	8.00	2.50	20.00	....	....	.50
Mont Rose	1.00	7.00	2.50	20.00	4.00	30.00	.50
Mousseline	1.00	7.00	2.50	20.00	....	....	...
Ornement	....	....	2.50	20.00	....	....	.50
Radiant	2.50	20.00	....	....	....	....	...
Ronsard	....	....	2.50	20.00	4.00	30.00	.50
Senateur Henri David	1.00	7.00	2.50	20.00	4.00	30.00	.50
Souv. de Mme. E. Chautard	1.00	7.00	2.50	20.00	4.00	30.00	.50

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SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Chas. C. Massie, Minneapolis, Minn.; 1st vice-president, J. M. Lupton, Mattituck, N. Y.; 2nd vice-president, W. F. Therkildson, Painesville, O.; secretary, C. E. Kendel; assistant secretary, S. F. Willard, Jr., both of Cleveland, O.

New Ideas in Seed Advertising.

Mr. Pettitt, the brilliant young advertising manager of the Michell Co., has been referred to several times in these columns recently in regard to his new ideas and general efficiency. His latest success is the Boy Scout campaign. This, in brief, is an outfit for the Boy Scouts whereby they can easily take orders in their neighborhoods in the campaign for the "Town Beautiful." They get paid a commission on orders and it is nothing unusual for these boys to earn $10, $15 or $25 a week in commissions. The idea has "caught on" amazingly, very much to the glory and profit of the House of Michell. Personally, I don't believe in training boys in bloodshed, as this scout business would seem to indicate. But they tell me these boys are on the lifesaving, heroic, courteous and town-clean-and-beautiful side—so that makes a difference. A very good article on seed advertising appears in last week's "Printer's Ink," from the pen of Mr. Pettitt. G. C. WATSON.

Notes.

J. B. Deamud has succeeded to the management of Vaughan's Seed Store, New York, in place of Mr. Slimon, who became incapacitated by ill health.

The Chicago retail seed stores all report a good business this week. The Easter spirit of flower giving and the bright sunshine have acted as a stimulus to trade, and quantities of seed packets, garden implements and nursery stock are changing hands.

Chairman W. F. Therkildson of the Postal Laws Committee of the American Seed Trade Association, informs us that every effort is being made to have Senate Bill 4980 taken up by unanimous consent in the House prior to the date set which was April 20. This is the Pomerene Bill to restore the old postage rate of two ounces for one cent, up to and including eight ounces.

At a meeting of the Executive Committee of the Ancient and Honorable Mechanical Company of Baltimore, held March 27, 1914, Charles J. Bolgiano, of the old established seed firm of J. Bolgiano & Son, was elected a member of the company. The Ancient and Honorable Mechanical Company of Baltimore is the oldest civic organization in the United States. It was organized Sept. 22, 1763. At the time the company was founded Baltimore, with a population of only 2,500, was threatened with many dangers and the purpose of the new organization was declared to be for the purpose of protection, "Not only from the frontier savages, but freebooters and pirates from the eastward." The first six mayors of the city were selected from among its members.



Asters Grown from MICHELL'S New Crop Seed Command Highest Prices Because of their Superior Size and Coloring

ASTER—NEW CREGO

White, Shell Pink, Rose Pink, Purple—Trd. 10c.; oz., $1.75.

Michell's Improved Semples Branching Aster

Lavender, Shell Pink, White, Rose Pink, Purple and Crimson—Trd., 30c.; oz.,$1.00.

Aster—Invincible

Blue, Crimson, Lavender, Rose Pink, White, mixed—Trd. 30c.; oz., $1.50.

ASPARAGUS PLUMOSUS NANUS

Greenhouse Grown Seed, 100, 50c.; $3.25 1000; 10,000, $29.00.
Lathhouse Grown Seed, 100, 35c.; $2.50 1000; 10,000, $23.00.
Hatcherii Seeds, 1000, $6.00; Sprengeri Seed, 5000, $3.00.

For Complete Price List of Aster and Other Seeds Get MICHELL'S Wholesale Catalog

MICHELL'S SEED HOUSE, Dept. Q, 518 Market St. PHILADELPHIA, PA.

MY GIANT

Winter Orchid Sweet Pea

are grown by over 3000 growers this winter. If you have not seen them in flower, ask your nearest grower and see for yourself. Nothing will pay better in the next ten years than these popular flowers. New seed will be ready in August. To plant one house 20x100 will not cost you over $15.00.

Write for information to the ORIGINATOR,

ANT. C. ZVOLANEK

Sweet Pea Ranch LOMPOC, CALIF.

Cold Storage Valley

Of finest quality for Early and Late forcing in cases of 1000, 500 and 250 pips at $16 per 1000. All expenses paid.

Corp. of CHAS. F. MEYER

99 Warren Street, NEW YORK

NEW CROP SEEDS

FOR FLORISTS

Ask for 1914 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No Market St., BOSTON, MASS.

CATALOGUES RECEIVED.

Thomas J. Gray Co., Boston, Mass.—Everything for the Golf Course. Well carries out its purpose and will be found very useful and practical.

Good & Reese Co., Springfield, O.—Spring Trade List for Florists, Nurserymen and Dealers Only. A comprehensive collection of seasonable planting material, hardy and tender.

Kelway & Son, Longport, England.—Gardens of Delight. While intended for catalogue purposes and serving as a supplement to their annual Manual of Horticulture. Messrs. Kelway have in this beautiful publication departed from customary catalogue style and have kept price lists and similar features well in the background. There are many original articles on garden topics and quotations on pertinent subjects from many authors. The illustrations are very fine, several of them in colors. This is the sort of literature which develops garden lovers.

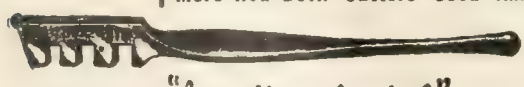
PUBLICATIONS RECEIVED.

The Modern Gladiolus Grower is a very practical little monthly periodical for both amateurs and professionals and No. 4 of Vol. 1, has just come to hand. It is published by Madison Cooper, Calcium, N. Y., and is a very creditable production.

Proceedings of the Western New York Horticultural Society at its 59th Annual Meeting held at Rochester, N. Y., on Jan. 28-30, 1914. A 250-page book, comprising an unusual amount of useful and practical information and reflecting much credit on the painstaking secretary John Hall. The interests of the great fruit industry of the State of New York, of which this Society is the leading exponent, are well cared for in this publication.

The Proceedings of the American Carnation Society at its 23rd annual meeting, held in Cleveland, Ohio, January 28-29, 1914, has been received from the secretary. In addition to a stenographic report of the discussions it contains much that will be of interest to all carnation growers, including a list of new varieties registered in this country and England during the past year, list of the members of the society, etc. A portrait of President Brown forms the frontispiece.

More Red Devil Cutters Used Annually Than All Others Combined



"It's all in the wheel"

Send 6c. for sample No. 024 and Booklet 40 styles, and understand why.

SEND FOR BOOKLET ANYHOW.

SMITH & HEMENWAY CO., . . 161 CHAMBERS ST., NEW YORK

FARQUHAR'S EVERGREEN LAWN GRASS SEED

In making or renovating a lawn, much depends on the Grass Seed Mixture used. Why not have the best?

Our Lawn Grass Mixtures are all composed of the finest quality seeds, and under normal conditions, should produce the best results. The formulas used are the result of a lifelong experience with grasses adapted to lawn making in this country.

Special Mixtures for—Shady Places, Putting Greens, Fair Greens, Sea Shore, Tennis Courts, Terraces

Catalogue on application

R. & J. FARQUHAR & CO., Boston, Mass.

SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

BURNETT BROS.

SEEDSMEN

98 Chambers St., NEW YORK

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

LAWN GRASS SEED

WHOLESALE ONLY

J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS 82 Dey St., NEW YORK

and ORANGE, CONN.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

S. S. SKIDELSKY & CO.

BULBS, PLANTS and SEEDS

1218 Betz Bldg., Philadelphia

Catalogue on application

SEEDS FOR FLORISTS

SPECIAL STRAINS

OUR ASTERS, CYCLAMEN AND PRIMULAS ARE UNEQUALLED.

Trade List Ready.

THOMAS J. GREY CO.

32 South Market St., Boston, Mass.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

"SEEDS WITH A LINEAGE"

Seeds with a generation of finest flowers and vegetables back of them—carefully selected—really tested.

Write today for Catalog.

CARTER'S TESTED SEEDS, Inc.

166 Chamber of Commerce Bldg. Boston, Mass.

PAEONIES

$10.00 per 100

In five colors

WHITE CRIMSON ROSE PINK CARMINE

TUBEROSES

Dwarf Double Pearl. Extra large size

$10.00 per 1000

Gladioli and Tigridias

All the leading varieties. Prices on application

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T-25) NEW YORK, N. Y.

New Crop Seeds

FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.

STAMFORD, CONN.

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS.

BALTIMORE, MD.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . . High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

SEND **ALBANY** ORDERS TO
FRED. A. DANKER
40 Maiden Lane, Albany, N. Y.
Member Florists' Telegraph Delivery.

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 306. Long Dist. Bell Phone 2189
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Holyoke, Mass.—Hugh Clark, 2227 Maple street.

Middletown, Pa.—Fred Beck, 126 Spring street.

Wakefield, Mass.—Minot H. Carter, 376 Main street.

Elmhurst, N. Y.—John Fieber, Metropolitan avenue.

Hartford, Conn.—Coombs, the Florist, 741 Main street.

Baltimore, Md.—Mark Wells, 1531 W. Baltimore street.

Wilkesbarre, Pa.—Joseph Michal Carpenters' Union Bldg.

Chicago, Ill.—John Mangel, annex building Marshall Field & Co.

STEAMER DEPARTURES

Allan.
Pretorian, Boston-Glasgow...Apr. 29

American.
Philadelp'a, N. Y.-S'hampton.Apr. 24
New York, N. Y.-S'hampton...May 1

Atlantic Transport.
Minneapolis, N. Y.-London....May 2

Cunard.
Saxonia, N. Y.-Mediter'n.....Apr. 21
Lusitania, N. Y.-Liverpool...Apr. 21

French.
La Savoie, N. Y.-Havre.....Apr. 22
Rochambeau, N. Y.-Havre....Apr. 25
La Provence, N. Y.-Havre....Apr. 29

Hamburg-American.
Amerika, N. Y-Hamburg.....Apr. 23
Graf Waldersee, N. Y.-H'mb'g.Apr. 25
Victoria Luise, N. Y.-Havre...Apr. 30
Cleveland, Boston-Hamburg..Apr. 30

Holland-America
Rotterdam, N. Y.-Rotterdam..Apr. 21
Potsdam, N. Y.-Rotterdam....Apr. 28

Leyland.
Canadian, Boston-Liverpool...Apr. 25
Bohemian, Boston Liverpool..May 2

North German Lloyd.
Kronp. Cecilie, N. Y.-Bremen.Apr. 21
Bremen, N. Y.-Bremen.....Apr. 23
Berlin, N. Y.-Mediterranean..Apr. 25
K. W. der Grosse, N. Y.-B'm'n.Apr. 28
Pr. Fr. Wilhelm, N. Y.-B'm'n..Apr. 30

Red Star.
Lapland, N. Y.-Antwerp.....Apr. 25
Vaderland, N. Y.-Antwerp....May 2

White Star.
Cedric, N. Y.-Liverpool.....Apr. 23
Majestic, N. Y.-Southampton.Apr. 25
Canopic, Boston-Mediter'n....Apr. 25
Arabic, Boston-Liverpool.....Apr. 28
Megantic, N. Y.-Liverpool....Apr. 25
Adriatic, N. Y.-Liverpool.....Apr. 30

INCORPORATED.

Gary, Ind.—The Gary Floral Company, capital stock, $5,000. Incorporators, A. Owens, M. Owens and M. E. Finan.

New York, N. Y.—Baltimore Cut Flower Co., capital stock, $25,000. Irving Jaffee, T. F. MacMahon, W. R. Siebrecht, 114 West 28th street.

Washington—To Miss Eleanor Wilson, daughter of President Wilson, who is soon to marry William G. McAdoo, Secretary of the Treasury, is attributed a new style of wearing corsage bouquets. Miss Wilson appeared on the street and at a dance wearing a bouquet of flowers at her right shoulder, out of danger when the wearer is tangoing. These bouquets are now known as "tango bouquets."

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)
Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
Palmer's
304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston

WASHINGTON, D. C.
GUDE'S
GUDE BROS. CO FLORISTS 1214 F ST., WASHINGTON D.C.
Member Florists' Telegraph Delivery.

GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—Fred A. Danker, 40 Maiden Lane.
Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

McLeansboro, Ill.—C. E. Jennings is preparing to add the greenhouses which he purchased at Mt. Vernon to his plant.

Southington, Ct.—Irwin Mitchell and John Olsen are the new proprietors of the florist business formerly conducted by Olsen & Lunden.

Schenectady, N. Y.—The florist shop of John C. Hatcher in the New York Central station was robbed last week the thief escaping with $25.

Kansas City, Mo.—Patrick Larkin and John Stevens have purchased the greenhouses of H. F. Jones at 58th street, and will enter the wholesale business.

Albany, N. Y.—The public were invited to visit the greenhouses of F. A. Danker, on Central avenue, on Palm Sunday. The display was a brilliant one and large crowds were present to enjoy it.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

THE SURPLUS DEVIL.

A Reverie by George C. Watson.

One is inclined at times to take a rather pessimistic view of things.

One talks to a retailer and finds he has little regard for anybody but himself.

One talks to a grower and usually finds that he thinks he is always getting the worst of the deal.

One talks to a commission man and learns that he gets no sympathy from either side—and thinks himself lucky if he breaks even.

Isn't all this enough to make anyone, even an optimist like the writer, a little bit pessimistic? Wouldn't preaching a little about cultivating the spirit of give and take on both sides help some? We believe it would, if it wasn't for that surplus! That pestiferous surplus brings every bit of latent selfishness out from the producing end. If there are more flowers in any one day than the market can absorb or, in other words, than the retailer cares to buy, what happens? The surplus is shoved aside from day to day, from Monday to Friday. On Friday it is offered at bargain figures to the retailer or the fakir, and then the howl begins. But in that case the retailer has his protection. "Those are not fresh flowers." He has that slogan and can hold his customers easily. So he is really not greatly harmed, if he would only calm down and consider that every cheap posy is a missionary for him.

But with Easter or Christmas plants it is different. In that case devil surplus is a genuine devil. The grower sells all he can at good prices to the retailer, and if he has grown too many—they go to the department stores and the street—with no stipulation as to prices—and take back any unsold. This is no fairy tale. It's a fact, and here's where the retailer has a real grievance. He does not have an equal chance as with cut flowers. The plants are not stale. They are just as good as he is selling. He is stung and there is no redress. We cannot see any reason why a department store is entitled to any better terms on plants or on anything else than a regular retail florist.

The surplus devil often blinds the fair-mindedness of the grower just as shortsightedness and narrow-mindedness often blind the retailer. If both sides would cultivate the spirit of toleration, of reciprocity, of justice, of square dealing, and not let a penny now kill a future dollar, one would be more optimistic. Let us all try to be a little more decent to each other from now on.

VISITORS' REGISTER.

Boston—D. Cameron, representing Sander & Sons, St. Albans, Eng.

Cincinnati, O.—P. O. Mumma, Leesburg, O.; Jacob Guenther, Piqua, O.; Mr. Olinger, Aurora, Ill.; Wm. Gardner, New Castle, Ind.

New York—C. L. Humphrey, Zanesville, O.; L. J. Reuter, Westerly, R. I.; S. S. Pennock, Phila., Pa.; Benj. Hammond, Beacon, N. Y.

Chicago—Mrs. Kirby E. Boerstler, Little Rock, Ark.; E. J. Coster of Saskatchewan Greenhouses, Prince Albert, Saskatchewan; Edward G. Lauterback, Bushnell, Ill.; Mr. and Mrs. W. C. Johnson, Memphis, Tenn.

CHICAGO NOTES.

Easter Plants.

Plant sales predominated as in former years and plant growers were mostly sold out a week or more before Easter. There was nothing strikingly new among the offerings, but the arrangements were more artistic than ever before and prices did not run quite so high as has sometimes happened. More pains were taken with the small offerings and it is safe to say that the number of plants sold was larger than ever, although the total may not reach a larger figure than in former years.

Rain fell on Good Friday but Saturday was clear and bright and trade quickly responded. Repeat orders began to come in but were often turned away because of lack of stock and retailers turned to cut flowers. There seem to have been fewer plants from the East this year. Azaleas, as was predicted, were not equal to the demand and were hardly up to their usual degree of excellence owing to their poor condition when imported. A bright Saturday was followed by an Easter Sunday of ideal weather and the florists generally are pleased with their Easter business.

(For Easter flower report, see usual market columns.)

Trade Notes.

The department stores are again offering trees to the school children at one cent each, for Arbor Day, April 17. Three hundred thousand white birch trees, approved by the official forester J. H. Prost are included.

The Foley Greenhouse Manuf. Co. is this week shipping some of their malleable iron specialties for greenhouse construction, to A. N. Pierson, Cromwell, Conn. Mr. Foley says business is starting out very nicely in the new factory this spring.

Harry Rowe made a record hard to beat. The large store on the northwest corner of Wabash avenue and Washington street was vacant and Mr. Rowe secured the key on Thursday morning, had his stock in place and was doing business in the afternoon. Monday the store is empty again and a neat sum is the result of three days' efforts.

At Wm. J. Smyth's, corner of Michigan avenue and 31st street, a very satisfactory business is reported. Something is lacking, however, when an automobile fails to crash through a window, as has happened twice before, or the wind to blow in one of the big sheets of plate glass. The employees say they miss something when no accident occurs at Easter time.

At Wietor Bros. this week, a house of 8000 Sunburst and another of Killarney Brilliant are being planted, the former having proved a good commercial variety and the latter, Mr. Wietor believes will do so. Carnation Bonfire is now seen here and is fine in color and form, while the three whites, Perfection, Wonder and Enchantress would be hard to excell, as grown at this place.

The annual Easter sale for the benefit of the Home of Destitute Crippled Children, given at the Congress Hotel, netted an enormous sum of money. Many of the florists who have donated to this worthy object in the past, felt it unwise to do so longer, as the amount of money taken in by the society annually has now reached proportions that make deep inroads into the florists' Easter sales.

Personal.

Christ. Blaumeiser of Niles Center, Ill., has the sympathy of the trade in the loss of his father.

Fred Strail leaves Friday for Twin Lakes, Mich., where Mrs. Strail will soon follow him. They will spend the summer on a fruit and poultry farm.

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO
And Neighboring Towns
Are Thoroughly Covered by
SCHILLER, THE FLORIST
(Member Florists Telegraph Delivery).
Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
GEORGE ASMUS, Mgr.
2221-2223 W. Madison St., CHICAGO.
'Phone West 822

REUTER'S Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

NEW YORK CITY
AND VICINITY
A. WARENDORFF
Artistic Work. Reasonable Prices. Prompt Delivery of Steamer Orders.
1193 Broadway, My Only Store

MEMORIAL DAY GOODS

THE MOST COMPLETE STOCK OF MEMORIAL DAY supplies which we have ever offered to the trade. Besides the usual standard stock of CYCAS WREATHS, MAGNOLIA WREATHS, BROWN AND GREEN MAGNOLIA FOLIAGE, METAL DESIGNS, CREPE ROSES, DAHLIAS, MUMS, CARNATIONS, ORCHIDS, etc., we show MANY BEAUTIFUL RAPID-SELLING NOVELTIES OF SEASONABLE INTEREST.

Don't Fail to Write for Illustrated List

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

IN VERMONT.

Reports from Bellows Falls, Vt., show that George Halladay had a record Easter in both pot plants and cut flowers, pot lilies naturally taking the precedence, with primroses, azaleas and daffodils following. The Misses Baker of Springfield, Vt., also report an increased business, although some complaint is made by the legitimate florist that the "corner drug store" or other stores are harming them by selling carnations imported from Boston, and in one store some lilies quite four inches high, also from near Boston, were to be seen marked at 7 cents a bud or bloom. Another element which has entered into the trouble of the country florist is undertakers' competition. Whatever the pros and cons in regard to this practise of the undertakers, it does not appear to be exactly fair for the florist to be deprived of what may be termed the cream of his trade, and is doubly hard on a man who has to educate the public before he gets their custom, only to find that they are patronizing a cheap-jack. SHERWOOD.

NEWS NOTES.

Escondido, Cal.—The first flower show ever held here will take place on Friday, April 24, under the auspices of the Floral Society.

Gloversville, N. Y.—The workshop of William J. Larcombe, Prindle and Jansen avenues, and greenhouses adjoining, were badly damaged by fire last week, and about $600 worth of spring bedding stock was destroyed.

Dallas, Texas.—Selling trees to citizens of Dallas at cost to beautify sidewalk parkings is a new industry in which the city will engage. A city nursery has been established at White Rock reservoir under the direction of Park Superintendent Robert Tietze, and Mayor Holland says that he expects the city will be able to dispose of trees at cost within 18 months or two years. What is the matter with the Texas nursery interests?

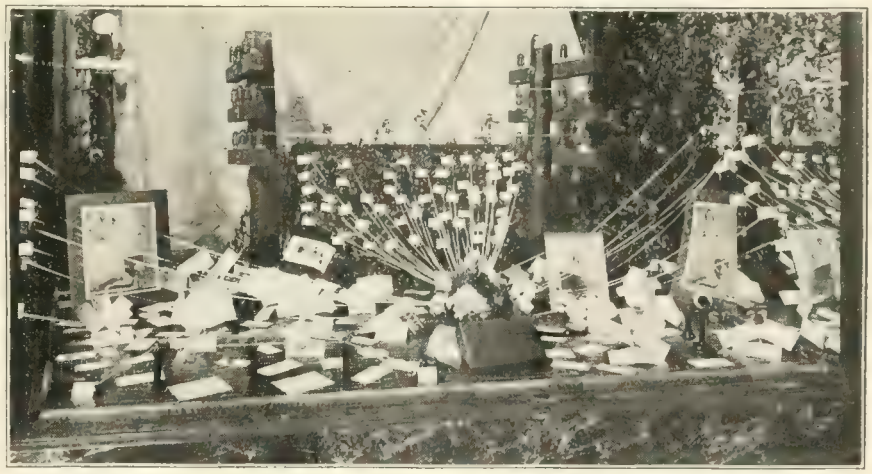
KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

WINDOW DISPLAY ADVERTISING FOR TELEGRAPH DELIVERY BUSINESS.



The illustration represents a window display made by Holm & Olson, Inc. (The Home of Flowers), St. Paul, Minn., to show the public how flowers may be delivered in any part of the world via wire.

The large telegraph poles seen in the back ground are six feet high and the cross arms are three feet long. These poles are set eight feet apart and the wires are stretched in the regulation way. Between these poles and below the wires are seen a number of cards. Looking closely you will find the United States reproduced with the cards representing the principal cities, also the principal cities of Canada are shown. The cards on the right of the picture represent the principal cities of Europe. On the left of the picture the cards represent the principal Asiatic cities.

To the right is an oil painting of a White star liner; to this picture also a card is attached. A total of 72 cards are used and to each card is attached a ribbon. The ribbons all run to a box of Holm & Olson Flowers and are centered. The box of flowers is seen in the center of the foreground. This is to convey the idea that the box of flowers can be delivered to any of the cards which indicate cities and also on board departing steamships. To the left in the foreground is a miniature telegraph line, the poles eight inches high and on each end is connected a telegraph instrument. One instrument bears a card "The Home of Flowers" and the other bears a card "To all parts of the world."

The telephone is also used and by combining telephone and telegraph the wire idea is complete. Two of the Florists' Telegraph Delivery posters are shown. Throughout the window are scattered the labels and tags of florists throughout the United States and Canada. A number of these tags are addressed as "To My Sweetheart," "To Dear Mother," "Congratulations," "Best Wishes," etc. Holm & Olson received from a circular letter sent out to the various florists about 400 tags and labels, this alone making an unique display. The canvas in the background was put up to enable the photographer to obtain a better picture.

This window display created a great deal of comment and a crowd of people hovered before it constantly and all were impressed with the idea. A number of orders for out of the city delivery were also received which was directly due to the display.

Edward H. Roehrs, of Rutherford, N. J., and Miss Edith Marshall were married on Thursday, April 16, at St. Andrew's church, New York City.

UNITED REFRIGERATORS

Sell Flowers and keep them in best condition. All sizes Display Cases, Coolers, etc. Ask for Catalog X4.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

SNAPDRAGON

$6.00–$10.00 per 100

VALLEY $3.00—$4.00 per 100

GARDENIAS $1.50—$3.00 dozen

KILLARNEY BRILLIANT $6.00 to $12.00 per 100

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

Order Your Memorial Day Flowers, Plants and Supplies Early.

Get Your Young Stock Now, to Grow On for Next Season.

All Choice Plants, Seeds and Roots may be procured from the Advertisers in this Paper.

THE BEST LETTERS

FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI April 13	CHICAGO April 13	BUFFALO April 13	PITTSBURG April 13
Am. Beauty, Special	40.00 to 50.00	30.00 to 35.00	40.00 to 50.00	30.00 to 35.00
" " Fancy and Extra	30.00 to 40.00	25.00 to 30.00	30.00 to 40.00	20.00 to 25.00
" " No. 1	15.00 to 20.00	10.00 to 20.00	15.00 to 20.00	3.00 to 15.00
Killarney, Extra	6.00 to 8.00	6.00 to 8.00	6.00 to 12.00	8.00 to 12.00
" Ordinary	4.00 to 6.00	3.00 to 5.00	6.00 to 8.00	4.00 to 6.00
Richmond, Hillingdon, Extra	6.00 to 10.00	6.00 to 8.00	10.00 to 12.00	8.00 to 12.00
" " Ordinary	4.00 to 6.00	3.00 to 5.00	5.00 to 8.00	4.00 to 6.00
Maryland, Ward, Taft, Sunburst, Ex.	6.00 to 10.00	6.00 to 10.00	12.00 to 15.00	8.00 to 12.00
" " " " Ordinary	4.00 to 6.00	4.00 to 6.00	6.00 to 8.00	4.00 to 6.00
Russell, Shawyer	..... to	..... to	... to	..... to .....
Carnations, Fancy	2.00 to 3.00	4.00 to 5.00	3.00 to 5.00	3.00 to 4.00
" Ordinary	1.50 to 2.00	3.00 to 4.00	2.00 to 2.50	2.00 to 3.00
Cattleyas	50.00 to 60.00	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00
Lilies, Longiflorum	10.00 to 12.50	8.00 to 12.00	12.00 to 15.00	6.00 to 12.00
Callas	8.00 to 10.00	8.00 to 10.00	10.00 to 12.50	.. ... to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Wallflower	..... to	..... to	2.00 to 3.00	..... to .....
Snapdragon	6.00 to 10.00	10.00 to 12.50	5.00 to 8.00	4.00 to 12.00
Daffodils	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	1.00 to 3.00
Tulips	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	1.00 to 3.00
Violets	.35 to .50	.50 to .75	.60 to 1.00	.50 to .75
Pansies	..... to	.75 to 1.00	1.00 to 1.50	..... to 1.00
Mignonette	4.00 to 6.00	4.00 to 8.00	2.00 to 5.00	4.00 to 6.00
Daises, white and yellow	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50	1.00 to 4.00
Sweet Peas	.50 to 1.50	1.25 to 1.50	.50 to 1.00	.50 to 1.25
Lilacs, per bunch	.. ... to	..... to	..... to	..... to 1.50
Gardenias	25.00 to 40.00	25.00 to 35.00	25.00 to 35.00	..... to 30.00
Adiantum	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25	..... to 1.25
Smilax	..... to 15.00	12.00 to 15.00	..... to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	50.00 to 60.00	40.00 to 60.00	..... to 50.00
" " & Spren. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00	30.00 to 50.00

BUY

BOSTON FLOWERS

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON

A very satisfactory Easter business kept everybody busy for the latter half of last week, but there was an overwhelming influx of flowers of all kinds and no scarcity was experienced on any line, although the cut flower department of many stores far exceeded the plant department in interest and sales. Flowers sold better than plants—the first time in many Easters. Carnations dragged somewhat and lilies were badly congested, there being veritable forests of them, of which only a proportion were sold, the rest remaining to overload the present week. Lily plants were grown in too large a quantity for the normal outlets of this market and many found their way to dry goods stores and provision markets, where they were offered at retail much below the regular wholesale quotations. Violets and sweet peas had a grand sale, as was also true of Cardinal, Richmond and all deep-colored roses. American Beauty enjoyed a good sale. So also did single daffodils and cattleyas. Snapdragon did fairly well. Many azaleas, rambler roses and other plants are left over in retailers' hands. The wholesale markets are loaded down with flowers of all kinds, the present week being the deadest experienced here this season. The public evidently exhausted either their pocketbooks or their flower fancy last week and things look very blue at present writing. Such a change!

BUFFALO

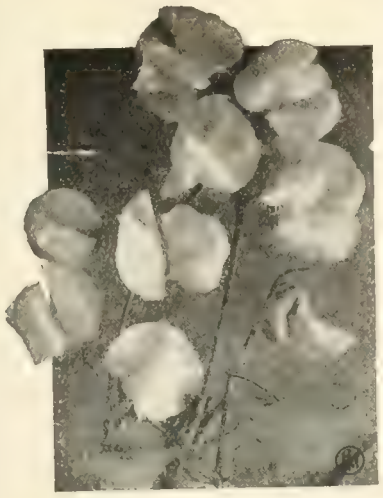
The great so-called Easter rush is over and all are satisfied. The ending was good and much better than was expected considering what the florists-at-large had to contend with. From Monday till Saturday snow was most plentiful and the temperature was freezing. Friday was the mildest day of the week and a large volume of business was done, especially in the plant line. The supply of plants was the largest ever handled during any Easter, though this does not apply to the wholesaler alone, but the growers who have retail stores connected and those that cater to the public market, where the bulk of the ordinary quality of stuff is disposed of. The retail merchants made excellent displays, the stores utilizing every inch of space, and the quality of the stock was never seen better than at this Easter, which was largely due to the two weeks of cold weather previous to Easter. Azaleas were plentiful in all grades and sizes, prices, etc., to meet any purchaser; also rhododendrons, hydrangeas, lilacs and pans of tulips, daffodils and other bulbous stock. Lilies were plentiful, though again too many short plants.

There was practically nothing doing in the cut flower line until Thursday. Advance orders were coming in lightly, there was no spectacular buying and it was keeping the retailer as well as the wholesaler guessing as to what the end of the week would bring forth. Carnations were good and cleaned up quite satisfactorily. There was a good supply of roses, violets, sweet peas, lily of the valley, cut lilies, Beauties (only of the long grades), and all corsage flowers, all of which shared in the demand. Snapdragon was in good supply, but did not take well. Bulbous stock was too plentiful and very little sale.

CHICAGO

Chicago florists, footing up Easter sales, almost unanimously declare it to be one of the best on record. Predictions in most case were verified regarding stock and roses proved plentiful and carnations in short supply while lilies proved to be in just about sufficient quantity to go around. Prices generally were maintained close to quotations except in extremely large orders. Killarney, Richmond and Sunburst were all in enormous quantity and after shipping orders were filled, the end of the week found no lack of good stock for local trade. Carnations generally were off crop, and there is no question but many more could have been disposed of had the cut been larger. Lilies appeared to be in excess of demand at first, but after the potted lilies ran out, purchasers fell back on cut ones, and with a few exceptions, wholesalers sold the bulk of their stock. American Beauties, never in heavy Easter demand, were sufficient for customers and at this writing there are plenty coming in. Sweet peas were cut so close for Easter that they are short now. Iris meets a fair demand. Lily of the valley is needed, as the wedding season has already begun. There is still an abundance of bulbous stock.

(Continued on page



SWEET PEAS

In all shades, delicate pinks, lavenders, whites, American Beauty and pink, including the beautiful Spencers in their many wonderful colors.

Medium $5 per 1000
Long $10 per 1000
Spencers $15 to $20 per 1000

Quality the best in any quantity

EVERYTHING IN RIBBONS—We carry one of the largest and most varied stocks in Ribbons pertaining to the florist business of any house in the country. If you have not received one of our new catalogues advise us and we will mail you one at once.

P M QUALITY

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA
1608-1620 Ludlow Street

WASHINGTON
1216 H Street, N. W.

NEW YORK
117 West 28th Street

BALTIMORE
Franklin and St. Paul Streets

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON April 16			ST. LOUIS April 13			PHILA. April 13		
Roses									
Am. Beauty, Special	20.00	to	25.00	40.00	to	50.00	20.00	to	25.00
" " Fancy and Extra	10.00	to	15.00	20.00	to	25.00	12.00	to	15.00
" " No. 1	6.00	to	8.00	15.00	to	18.00	6.00	to	8.00
Killarney, Extra	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00
" Ordinary	1.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Richmond, Hillingdon, Extra	6.00	to	8.00	8.00	to	10.00	6.00	to	10.00
" " Ordinary	1.00	to	4.00	5.00	to	6.00	2.00	to	4.00
Maryland, Ward, Taft, Sunburst, Extra	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00
" " " Ordinary	1.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Russell, Shawyer	4.00	to	15.00	.....	to	.....	5.00	to	15.00
Carnations, Fancy	1.50	to	2.00	4.00	to	5.00	3.00	to	4.00
" Ordinary	1.00	to	1.50	2.00	to	3.00	1.00	to	2.00
Cattleyas	20.00	to	40.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	3.00	to	4.00	12.00	to	15.00	8.00	to	12.00
Callas	4.00	to	6.00	10.00	to	12.00	8.00	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00
Wallflower	1.00	to	2.00	.....	to	.....	4.00	to	6.00
Snapdragon	2.00	to	4.00	4.00	to	5.00	6.00	to	12.00
Daffodils	1.00	to	2.00	3.00	to	4.00	2.00	to	3.00
Tulips	2.00	to	3.00	3.00	to	4.00	2.00	to	4.00
Violets	.50	to	.75	.35	to	.60	.25	to	.50
Pansies	.....	to	1.00	.....	to	.....	.50	to	.75
Mignonette	2.00	to	4.00	4.00	to	5.00	2.00	to	4.00
Daisies, white and yellow	.50	to	1.00	1.00	to	2.00	1.00	to	1.50
Sweet Peas	.40	to	1.00	.40	to	2.00	.50	to	1.50
Lilacs, per bunch	.....	to	.....	.....	to	.....	1.00	to	1.50
Gardenias	15.00	to	20.00	.....	to	.....	5.00	to	20.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	25.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	35.00	to	50.00

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square **New York**

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE {608 / 609} MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
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REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone, 3870 or 3871 Madison Square

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N.Y.

P. J. SMITH
Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
TEL. 1998 MADISON SQUARE 49 West 28th St., New York City

Established 1887 **J. K. ALLEN** Still Going Strong
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
A SQUARE DEAL. PROMPT RETURNS. MONEY ALWAYS READY.
106 WEST 28TH ST., NEW YORK
Opens 6 A. M. daily. Telephone, 167 and 4468 Mad. Sq.

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 11 1914	First Half of Week beginning Apr. 13 1914
American Beauty, Special	25.00 to 50.00	15.00 to 20.00
" " Fancy and Extra	10.00 to 15.00	8.00 to 10.00
" " No. 1	8.00 to 10.00	6.00 to 8.00
Killarney, Extra	4.00 to 8.00	4.00 to 6.00
" Ordinary	1.00 to 3.00	1.00 to 3.00
Richmond, Hillingdon, Extra	4.00 to 8.00	4.00 to 6.00
" Ordinary	2.00 to 4.00	2.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 12.00	4.00 to 10.00
" " " " Ordinary	2.00 to 4.00	2.00 to 4.00
Russell, Shawyer	3.00 to 10.00	3.00 to 10.00
Carnations, Fancy Grade	3.00 to 5.00	2.00 to 3.00
" Ordinary	2.00 to 3.00	1.00 to 1.50

Centrally Located, The Hub of the Flower Market Section
CHARLES MILLANG
Wholesale Florist
55 and 57 W. 26th Street, - - NEW YORK
Telephone 7062 Madison

BADGLEY, RIEDEL & MEYER, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 76 Maiden Lane, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
123 MANSFIELD STREET, MONTREAL, P. Q.

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

WHOLESALE FLORISTS
A. L. Young & Co.
54 West 28th St. New York
Consignments Solicited

Telephone 3860 Madison Square
WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
37 and 39 West 28th St., NEW YORK

B. S. SLINN, JR.
VIOLETS
CARNATIONS, ROSES
55 and 57 W. 26th St., New York
Shipping Orders Carefully Filled

EDWARD REID
WHOLESALE FLORIST
1619-21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 613)

CINCINNATI Easter business was very good. The supply was large and sufficient for all requirements. The demand was even better than expectations. On Saturday a miserable rain set in, but in spite of that orders came in at a merry rate and nearly every one reports a good Easter. The supply of all flowers was fully adequate, except in carnations and sweet peas. The American Beauty cut, too, was rather limited.

Prospects for the immediate future are very bright. The rose cut is large and steady and the flowers are of a very good quality. A good cut of Beauties is promised for the immediate future. The carnation cut will probably continue somewhat under normal for a few weeks. Easter lilies are in a good supply. The same is true of all the market staples.

NEW YORK New York's Easter may be told in few words. It was a big Easter in every sense—big for plants and for flowers; big for grower, wholesaler and retailer. The weather man was kindly disposed, especially on Sunday, which was a beautiful day and more flowers were worn in the great Easter parade than ever before. Almost every second lady was adorned with cattleyas, violets, sweet peas or lily of the valley. The sale of roses and carnations was surprisingly good, as was that of daffodils, but the great bulk of the rush was on the four things above enumerated. Gardenias were seen on Fifth avenue in superabundance, but—mainly on the trays of the street sellers and "thereby hangs a tale." If you want to maintain the respect of the public for any flower, exercise some caution as to how it is presented to them. Lilies met a very sad fate. Such an avalanche never before landed on any market. Every out-of-town locality was seemingly supplied locally and it was impossible to ship any. Prices asked for lilies in large lots were one-half and one-third of normal Easter figures, and at the close the only thought was to unload, at any price. It was estimated that not less than 50,000 lily flowers, cut or on plants were left over in wholesalers' hands. These are still in evidence and are considered well-sold this week at $1.50 per 100. The flower that got the worst rebuff, however, was the snapdragon. It was absolutely unsalable, no matter what its color, or to whose "true strain," it traced its lineage. Bulbous stock made an unexpectedly good record, the only draggy exception being the white tulips. The plant trade did not seem to increase any in volume over recent years, the demand being almost entirely for the smaller and less expensive stock. Large specimens moved with difficulty. The best sale was had on the mixed baskets, tin lined and ribbon adorned. These were beautifully gotten up by the retail dealers, with small dainty flowered and foliage plants, and their sale was legion. The supply men placed in the hands of the florists the most artistic and appropriate examples of baskets and other plant receptacles ever offered and these contributed not a little to whatever prosperity the Easter plant business enjoyed.

PHILADELPHIA Cut flowers of all kinds were plentiful and good for Easter week, with the possible exception of violets and lily of the valley. The former are reaching the end and were scarce and not of the highest quality, especially the singles. Lily of the valley was scarce, probably because the growers did not plant enough. The big supply, at reasonable prices, of such things as roses, carnations, orchids, gardenias, had a notable effect in switching buyers away from their usual purchases at Easter. Many of the retailers commented on this change in the Easter situation. The cut flower men are, therefore, distinctly to be congratulated. Of course they did not get famine prices, but they had quantity to make up for that, and the reasonable figures leaves a good taste in the buyer's mouth which will be remembered next year. There was a tremendous business in cut flowers, and it is certain the records have been broken as to quantity. Total receipts as to value are not figured out yet, but all look pretty cheerful. Daisies and other small flowers were in great demand for bunching. The weather all through was ideal, and corsages were "all the rage."

In Easter plants the business was also fine, but not such a good clean-up as usual. There were large lots of short-stem lilies and much of this stock remained unsold. There were also a good many large azaleas that did not find a market. All the lower-priced stock, like spiraeas, daffodils, hyacinths, etc., had a good clean-up.

ST. LOUIS St. Louis has just experienced one of the best Easters in many years. Plants of all descriptions sold as they never did before, and especially so with the large up-town florists who have show houses which were filled up the past week and are now empty. All agree that lily plants had the call over all others. The sale of these was enormous. Next came azaleas, hydrangeas and rhododendrons, followed by spiraeas and bulbous stock. The weather was all that could be expected, which made delivery easy. Cut flowers were scarce and high, which was least expected, as all stock just before Easter was very plentiful. Those who placed advance

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Apr. 11 1914	First Half of Week beginning Apr. 13 1914
Cattleyas	50.00 to 100.00	25.00 to 35.00
Lilies, Longiflorum	3.00 to 6.00	1.00 to 4.00
Callas	6.00 to 8.00	6.00 to 8.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00
Wallflower	1.00 to 2.00	1.00 to 2.00
Snapdragon	2.00 to 4.00	1.00 to 3.00
Daffodils	1.50 to 3.00	1.50 to 2.00
Tulips	2.00 to 3.00	1.50 to 2.00
Violets	.75 to 1.25	.40 to .60
Pansies	..... to	..... to .....
Mignonette	2.00 to 6.00	2.00 to 6.00
Daises, white and yellow	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	8.00 to 15.00	6.00 to 8.00
Lilacs (per bunch)	..... to 1.00	..... to 1.00
Gardenias	6.00 to 12.00	4.00 to 10.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	8.00 to 12.00	8.00 to 12.00
Asparagus Plumosus, strings (per 100)	20.00 to 30.00	20.00 to 30.00
" " & Spren (100 bunches)	15.00 to 35.00	15.00 to 35.00

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use
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40 STATE ST. - - - - - BOSTON
Telephone Main 58

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Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

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Nicotine Mfg. Co., St. Louis, Mo.
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Godfrey Aschmann, Philadelphia, Pa.

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Asparagus Plumosus Nanus Seedlings.

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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

ASTER SEEDS

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Crego Aster Seed, best possible, white, shell, blue, rose, oz., $1.25; ½ oz., 75c.; ¼ oz., 40c.; 6 color mixture, 20% less. 1 oz. each color, $4.00; ½ oz., $2.50; ¼ oz., $1.40. Cash. D. C. LEWIS, Pemberton, N. J.

Aster Seed, Late Branching White, in bulk, $4.00 per lb. Same variety in selected seed for cut flowers, 1 oz., $1.00; ½ oz., 50c.; ¼ oz., 30c.; ⅛ oz., 20c. Cash. HUDSON & WELSH, Lyndonville, N. Y.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $3.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Three Good Boilers For Sale.

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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

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Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.
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108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Chrysanthemum Novelties for 1914.
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Chrysanthemums Rooted Cuttings.
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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c, $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

SINGLE CHRYSANTHEMUMS

from 2¼ in. pots.	100
Yellow Mensa	$10.00
Mensa. Finest White	5.00
Celia. Lemon Yellow	5.00
Cha. Kingsley. Fine Yellow	5.00
Mary Pope. Large Pink	5.00
Hilda Wells. Tuscan Red	4.00
Mary Richardson. Salmon	4.00
Mrs. Heneage. Yellow Anemone	4.00
Pompons—Lula, white; Souvenir d'Or, orange and bronze	3.00

FRANK P. PUTNAM,
P. O. Box 12, Lowell, Mass.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

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CYCLAMEN—Continued

Cyclamen giganteum, best strain to be had any where; pure white, white-pink eye, rose of Marienthal, Christmas Cheer, strong 2 in. pots ready to shift, $5.00 per 100; $40.00 per 1000; this offer holds good until April 25th, only. J. A. PETERSON & SONS, Wholesale Plant Growers, McHenry Ave., Westwood, Cincinnati, O.

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Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
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Dracaena Indivisa, fine stock, 3 in., $5; 4 in., $10; 5 in., $15; 6 in., $25—per 100. Cash please. J. W. MILLER, Shiremanstown, Pa.

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Colin Campbell, New York City.

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Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus. Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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"Nico-Fume."
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Iris pallida dalmatica, beautiful lavender color, strong grower; now is the time for planting this most beautiful of all the German iris; strong divisions, $10.00 per 100; $75.00 per 1000. J. A. PETERSON & SONS, Wholesale Plant Growers, McHenry Ave., Westwood, Cincinnati, O.

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J. P. Campbell, Jacksonville, Fla.

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Coldwell Lawn Mower Co., Newburgh, N. Y.

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Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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August Rolker & Sons, New York City.
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Otto Heinecken, New York City.
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PANSY PLANTS
125,000 large, stocky (September transplanted), field-grown, blooming pansy plants; Henry Mette's strain, all salable stock, satisfaction guaranteed, $1.00 per 100, $10.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

PEONIES
J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection, 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PHYSOSTEGIAS
PHYSOSTEGIA VIRGINICA, field grown, strong, $3.50 per 100, $30.00 per 1000. W. E. KING, Little Silver, New Jersey.

PIPE AND FITTINGS
Kroeschell Bros. Co., Chicago.
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PLANT TRELLISES AND STAKES
Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS
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"Riverton Special."
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August Rolker & Sons, New York City.
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Charles H. Totty, Madison, N. J.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS
Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

SALVIAS—Extra strong Seedlings, Bonfire or Dragon, 50c. per 100, $4.00 per 1000. Cash. R. POWELL, Florist, Box 266, White Plains, N. Y.

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SCOTCH HEATHER
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Braslan Seed Growers Co., San Jose, Cal

SEEDS
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Boston, Mass., and London, England.
"Seeds with a Lineage."
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Evergreen Lawn Grass Seed.
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S. D. Woodruff & Sons, New York.
Garden Seed.
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Quality Sweet Pea Seeds.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

SLUG SHOT
Hammond's Paint & Slug Shot Works, Beacon, N. Y.
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SNAPDRAGONS
G. S. Ramsburg, Somersworth, N. H.
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SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS
Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS
Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED
Arthur T. Boddington, New York City.
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TRITOMAS
Let me hit you with the poker. Tritoma Pfitzeri, red hot poker, strong crowns, $5.00 per 100. THOMAS J. OBERLIN, Sinking Spring, Pa.

TUBEROSES
J. M. Thorburn & Co., New York City.
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VEGETABLE PLANTS
TOMATOES.
5000 Comet Forcing Tomatoes, $20.00 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

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Quaker Machine Co., Richmond, Ind.
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VERMICIDES
Aphine Mfg. Co., Madison, N. J.
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VERONICAS
VERONICA LONGIFOLIA SUBS., field grown, or 3 in. stock, $3.50 per 100, $30.00 per 1000. W. E. KING, Little Silver, New Jersey.

WEED KILLER
Pino-Lyptol Chemical Co., New York City.

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W. J. Cowee, Berlin, N. Y.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis

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YOUNG ROSE STOCK OF HIGH QUALITY.
W. H. Elliott, Brighton, Mass.
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In writing to Advertisers kindly mention Horticulture

Flower Market Reports

(Continued from page 615)

orders were in high glee but others who took chances on stock being plentiful got left, as the wholesale houses had all they could handle with advance orders for both local and shipping. Carnations that sold only a week before at 2 and 3 went up to 5 and 6, and fancy whites at 8 per 100. Roses were most reasonable.

WASHINGTON

The florists report a very satisfactory Easter business, although the volume was not sufficient to overcome the many dull weeks which preceded the rush. All were forced to put on additional help, Gude Bros. using the services of about sixty messengers in addition to a large force of men from the greenhouses and such clerks as they were enabled to pick up at short notice. In some degree this same condition existed in other places. The extra and inexperienced employees in such large numbers caused more or less confusion, but as a whole, things moved very smoothly. There were several surprises, incident to the business, the greatest of these being the lack of demand for snapdragon. This flower came with long stems and fine, full flowers, but no one seemed to want it. On the other hand, there was something of a rush for red roses which caused the price to jump considerably before Sunday. As a whole the prices were about the same as in previous years. Gardenias, however, were cheaper than they have been. The sale of these will not prove historic, for the street men peddled them about at ten cents each, killing their sale in the stores. The movement of pot plants about reached the limits of previous years, although in the cheaper grades only; the people did not seem to want the expensive stock. With the city full of tourists, a fair sale of flowers continued during the early part of the week, particularly of jonquils which seemed to be the favorite, while sweet peas, as usual, came a close second. Roses for this purpose are not much in demand.

COLUMBUS, O.

Easter trade was double over last year. Blooming plants of all kinds sold on sight. Sweet peas and violets for corsage work were in great demand. The weather turned in bad, (rain). The flower stores were rushed and all were satisfied. The markets were flooded with potted hyacinths and tulips which were sold very cheap. Good stock of blooming plants were in demand, as always.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—Working foreman in commercial place, ten miles from Boston, to grow miscellaneous stock for retail trade. Good habits and sobriety essential. Address G. B., care HORTICULTURE.

WANTED On commercial place, a hustling man familiar with growing herbaceous perennials. State wages and experience in first letter. CHERRY HILL NURSERIES, West Newbury, Mass.

SITUATIONS WANTED

WANTED—Position as head gardener. Scotchman, age 31, married, thoroughly competent to take charge of private estate, desires position as above. Experienced in orchids, carnations, roses, etc. Fruit, inside and out, flower and vegetable gardens. Lawns, shrubs, farm stock and poultry. Address with full particulars, W. HAY, Box 273, Bernardsville, N. J.

SITUATION WANTED as gardener, inside or out, on private estate. Life experience—fruit, chrysanthemums, orchids, etc. First-class references. Age, 38; English. Address "P," care HORTICULTURE.

SITUATION WANTED by competent greenhouse man. Thoroughly experienced in all branches. Capable of acting as foreman. Central Massachusetts or Southern New Hampshire preferred. "C. J. H.," care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—A nice residence; 9 rooms; having all latest improvements—city water, steam heat, electricity; two wells; three greenhouses; across from a Cemetery. Very suitable for a florist. Address J. P. THEVE, Norwich, Conn.

NURSERY STOCK CANNOT BE MAILED TO CANADA.

The Canadian Department of Agriculture has served notice on Uncle Sam that nursery stock by mail from the United States is taboo in the dominion. The Second Assistant Postmaster General at Washington has sent out the following communication:

"The postal administration of Canada has informed this department under date of March 13, 1914, as follows.

" 'Under a regulation of the department of agriculture, which took effect on the first day of March, 1914, the importation into Canada of nursery stock, including trees, shrubs, vines, grafts, scions, cuttings, or buds, is prohibited through the mails, excepting greenhouse-grown florists' stock, cut flowers, herbaceous perennials and bedding plants, which will be admitted provided that a detailed statement of the contents is attached to the parcels containing such matter.' "

PLANT FOOD.

On page 552 you have an inquiry about feeding potted plants. The following combination is enough to make a barrelful of liquid fertilizer for use, either for house plants or for florists' stock. It is called "Wagner's Solution."

Ammonium phosphate	2 oz.
Sodium nitrate	1½ "
Potassium nitrate	1½ "
Ammonium sulphate	1½ "

To use this, dissolve the above in about five pints of water. This concentrated solution can be kept in a bottle, three or four ounces being used in three gallons of water to feed the plants. Feed palms, ferns and other foliage plants with it about once a week. The cost of the chemicals will not be over 25 cents. P. T. B.

Stamford, Ct.—G. L. Cannon has purchased the greenhouse stock of the A. L. Butler Estate at Coscob and transferred them to his establishment on Atlantic street.

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE NO ODOR NO POISON

Guaranteed under the Insecticide Act. 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package



Ram's Head Guano
100 lbs. $2.00
WM. ELLIOTT & SONS
42 Vesey St., New York

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:
$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

Little Ads Bring Big Returns

Little ads. in our Classified Columns bring big returns to both advertiser and purchaser.

Anything that can be sold to florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium in this department, and at very small cost.

Don't fail to read them each issue, for you will find one or more that will prove profitable to you.

They Cost Only One Cent a Word Undisplayed

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

Sold by the Seed Dealers

Office of ALFRED GOLDRING, Florist, Cobleskill, N. Y., March 17, 1914



We use Hammond's **SLUG SHOT** on Currant Bushes in the Spring before the leaves are started. We put it on around the roots and have done it for two years, and find that the worms are killed before they get on the bush. For Potatoes we put on **Slug Shot** as soon as the bugs come, and we have good vines, plenty of tubers and no bugs. It is the best thing we have ever used. **For Sow Bugs in greenhouses it is sure death.** We had a lot of them before using Slug Shot, but they get out where it is used.

ALFRED GOLDRING.

Hammond's Paint & Slug Shot Works, BEACON, N. Y.

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N. Y.

BIG BLOOMS

and Strong Plants guaranteed. Mix DAVIDGE'S SPECIAL PHOSPHORUS with planting and potting soil. After roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

HUDSON CARBON CO., Ballston Spa, N. Y.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - BEVERLY, MASS.

When writing to advertisers kindly mention HORTICULTURE.

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

It Will Pay You

to find out about

KING GREENHOUSES

If you want a house for professional growing. They are economical to build, economical in up keep and extraordinarily productive. Write today for commercial house bulletins.

KING CONSTRUCTION CO.
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All the Sunlight All Day Houses

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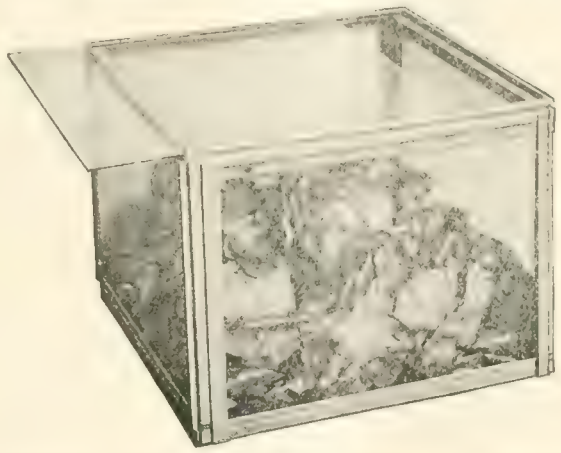
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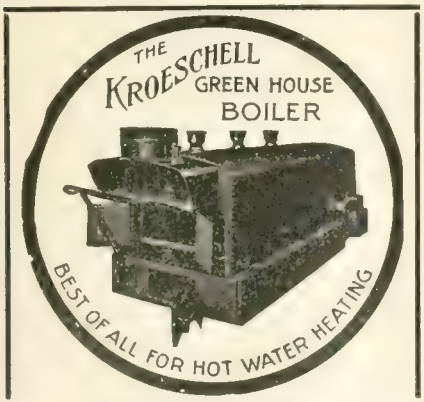
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No. 17
APRIL 25,
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY NEW YORK BOTANICAL GARDEN

Asters

There is no doubt that the finest asters are raised on light, sandy soils, deeply plowed or dug and quite heavily fertilized with rough barnyard manure the year previous. I like to have the land well plowed, manured and thoroughly prepared in October or November. In the spring the ground is then nice and mellow, needing nothing but a good raking over to have it ready for planting. Aster growers should not be in too great a haste to plant out. Raw cold winds, I believe, are the principal cause of turning vigorous little asters into a lot of yellow, blighted or stunted plants. Indoor-grown plants should first be well weaned to open-air conditions. The ground on which asters are to be grown should be fresh when stirred, but not wet or deficient in spring's natural warmth. Potted plants or those once transplanted, may be set out on the sunniest day, but for the planting of those coming directly from the seed bed a warm, but somewhat cloudy day should be chosen.

Begonia incarnata

For a fine winter flowering begonia there is nothing better than Begonia incarnata. The only thing that keeps it from becoming a rival of B. Gloire de Lorraine or Glory of Cincinnati is that it cannot be grown into a salable plant as quickly as they. Old plants can be cut back and kept on the dry side for a few weeks and when they show signs of breaking they can be given water at the roots. Give them a temperature of about 60 degrees at night and they will soon produce fine cutting. A propagating bed that will root roses will root this begonia fine. When they are rooted pot them into 2½ inch pots using a compost of fibrous soil three parts, leaf mold two parts and one part of sand. As they become well rooted they can be shifted into 4-inch pots using a compost richer than the former.

Cyclamens

Cyclamens started late last fall or in midwinter are among the readiest to resent any slight in cultural care at just this time of the year. Cyclamens will do fine in the house where your best geraniums are. In fact, that is, to my mind, the proper place for them for the present, but don't stick the stock in some out of the way corner because they like a little shade. The little plants don't need any shade. For the next six weeks they want light, sun, and good circulation of fresh air; then, only, will they do their best. A good potting soil for well advanced cyclamens is a rather stiff mixture of turfy loam and thoroughly decomposed cow manure lightened by the addition of some sharp sand and a small portion of good leaf mold, all well broken up, but not sifted. Rightly placed drainage in the larger sized pots is essential.

Gloxinias

In watering gloxinias care must be taken not to wet the foliage any more than is absolutely necessary. The earlier started gloxinias are now coming into bloom. These are given a well shaded house, with a night temperature of 60 degrees, the plants being kept quite close to the glass. As the pots fill with roots, an occasional weak dose of liquid manure will be found helpful. Elevate the best plants on inverted pots. When well opened, gloxinias can be placed in a house 10 degrees cooler, in which they will get more substance and keep much longer, but they must always be shaded from the sun and cold drafts must never strike them. There is still time in which to start tubers for late summer blooming. Place them in flats covered lightly with leaf-mold and sand in a warm moist house. Gloxinias enjoy a light but moderate rich compost and it is better not to use chemical fertilizers if flowers with substance are desired. Seedlings started in January are now of a good size in flats and will soon go into 3½ inch pots with a later shift into 5-inch pots, in which they will be allowed to bloom.

Orchids

There is at present an abundance of cattleya flowers. Move plants in flower into a cool, airy and well-shaded house. In order to keep down the temperature, rolling lath-blinds are preferable to whitewash on the glass. It is not necessary to remove them from flowering plants as they admit a good amount of light, but when used on other houses where plants are making their growth it is better to use them only to protect the plants from the sun and it is surely a great advantage to have all possible light during spells of dark, rainy weather. As the various summer cattleyas pass out of flower keep them fairly cool and drier at the root. Necessary potting or rebasketing should be done before the growths are too much started. In regard to temperatures, no hard and fast rule is possible during the summer months but 60 to 65 degrees at night is ample. It is preferable to give some air rather than to close up tightly on colder nights.

Winter Geraniums

Now is the time to select plants of the most popular varieties of geraniums. Any of the scarlet ones sell well at Christmas. Plants that you intend for Christmas flowering should now be sufficiently advanced to require a four-inch pot. Grow on in a good light and well-aired house.

Mr Farrell's next notes will be on the following: Primulas; Chrysanthemums; Hydrangeas for Memorial Day; Marguerites; Lily of the Valley for June Forcing; Grevillea robusta.

On the Border of Vast Possibilities

Tremendous strides have been made in recent years in the floral world. When Prof. Dahl found that single flower which now bears his name growing in Mexico he little thought of the marvelous developments of the present. Of course there were several native varieties of this flower, but the skill of the florist has produced such wonderful variations that their own mother could not recognize them, and they seem now all ready for new developments. They have so far advanced that any one can push the work along.

It seems a law of nature that the further a plant is grown from its mother the more liable is it to break out in a free rollicking display of new charms. Take the phlox—at first a quiet demure Indian maiden, modestly displaying her graces. She is taken to Europe and transformed into a royal princess. This plant is an exemplification of that universal law that the farther removed from the parent the more apt it is to develop entirely new characteristics. Let the bees do the crossing, you save the seeds of the best, plant in the fall, and the next year you will have a garden of delight, full of surprises of loveliness. Some varieties have a strong prepotency; that is, they impress themselves on their progeny. The Crepuscule is remarkable for this. Plant a group in the center, and others of the finest kinds around them, and next year from the seed you will have most cheering results—far surpassing most European varieties.

I need not say much of the peonies, for so much attention is being paid to their development. There are so many at work on them and they are rewarded with such satisfactory returns, that there are great rewards to be achieved along this line. Only do not name and put on the market any but the very best.

Columbines offer a wide field for development. There is a Columbine society which is endeavoring to make this the national flower. The beautiful coerulea of the Rockies—the State flower of Colorado—which is a photograph of the intense blue of the skies, and the fleecy clouds, is so prone to cross with others, that its identity is lost and seeds must always be secured from its mountain home. But this self abnegation goes to build up beautiful new varieties.

C. S. Harrison.

York, Neb.

Angraecum sesquipedale

The genus Angræcum contains some very interesting and useful species. The illustration on title page of this number of HORTICULTURE represents one of the best known. A. sesquipedale with its waxy white star-shaped flowers, with long spurs, always attracts attention when in bloom and the plants are quite ornamental when not in bloom.

All the larger growing species will be best grown in common flower pots, filling the pots within 2 inches of the rim. With the exception of A. falcatum all the angræcums require warm treatment and as they are nearly always growing they should not be allowed to remain dry for any length of time. In summer, when they are in full growth, they will enjoy a high temperature and a good supply of water at the root and a good buoyant atmosphere.

M. J. Pope

Naugatuck, Conn.

Wake Up! The Horticultural World is Aroused

Yes! the whole country is alive with a new and awakening interest in Horticulture and Floriculture. New societies are being formed and talked about; Garden Clubs and School Garden Associations are in the making. The leading newspapers and magazines are devoting pages to the garden and kindred interests. Universities, Colleges and Schools are talking Horticulture and the Flower Shows throughout the land are educating thousands. Also permanent Country Life expositions and outdoor floral exhibits are helping the game along. At this time, too, we must not overlook the trade press where new phases of horticulture, novelties, methods, construction, etc., are ably discussed. The whole trade should benefit by this appetite and love of gardening, which is still in its infancy. The United States is foreordained to lead the horticultural world as in all the arts.

Question? Are we alive to this obvious evolution? Are we taking full advantage of the opportunities that are forcing themselves under our very noses? Are we aware of what is being consummated for us? And what are we doing ourselves? And for ourselves? *Harry A. Bunyard.*

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Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting Time

Planting time will be here before we know it, and all the necessary implements, bonemeal, sod and all are on hand and ready for the rush. The sod heap seems to be the most important item, and if this is in good shape things are bound to run along nice and smooth. Better have the sod cut down at the earliest convenience and then let it lie where it will be in excellent shape when the time comes for it to be wheeled into the houses. As suggested before in these columns a little real coarse bone can be added to the soil. This will take quite a while to dissolve and it will be about right when the plants get to it. If the sod heaps are not put up yet put them up without delay so that the sod has a chance to decay. Many will insist on using a shovel when the soil is being loaded on wagons in the field. This is a bad practise for only sod should be taken, for the good of the roses and the field itself as well. If too much loose soil is taken off the field it will be years before anything will grow there again, and the loose soil is not wanted in a sod heap. Pick up the sod with a fork, after the field has been plowed shallow. Then leave the rest for the grass that is to grow there another season. If the land is your own, lose no time to plow it up, and give it a coat of bonemeal if manure is not to be had, and then plant it to cow peas or anything that can be plowed under and help enrich the soil so that it will come back to its former state of fertility.

Idle Ground

If you have any field around the greenhouses that would be idle all the time, have it plowed and if you do not want to grow anything on the ground sow it to some crop that will be plowed under and thus the soil will be enriched and ready for you when you do want to plant something there. These prepared patches of soil come in real handy, and as it sometimes happens, there may be a shortage of potting soil, and then this will be an ideal place to go and get it. At any rate allow no ground to lie idle and producing nothing but weeds. Get some timothy seed and mix a little clover with it and sow that. Good hay is always in demand, and where horses are kept on the place it will be well utilized. Some of the old soil can be spread over the plot each fall and this will help to grow the next season's hay crop.

Among the Plants

Many of the plants that are in four-inch pots will be growing quite tall and may be spreading a little as well. See that these have all the room they need, and as soon as they begin to crowd give them a little more space but not too much for then the pots would have to be sunk into the benches to keep them from drying out too much which would happen to them if they were spaced too far apart. On sunny days it would be almost impossible to keep these wet. Watch the Beauties especially, and see that no black spot creeps in unnoticed. The taller plants will have to be tied staked to small stakes to keep them from lieing all over when they are syringed. See that all plants are disbudded when the buds begin to show. Do not wait until the buds develop and then cut them off. This only takes a good deal of the energy away from the plants, and they certainly will need every ounce of this that they can muster up. Then, too, they will start growing almost at once if the buds are removed when they are barely visible, whereas if they are allowed to grow on until they open up, and are then cut off, the plants will remain in one place for a good while. At least three weeks are lost by allowing the buds to develop on the young plants.

Liquid Manure for the Young Plants

Where the young plants are well rooted, and are turning yellow, with no show of a shift into larger pots, there is nothing better than a light dose of liquid manure applied either with a hose or with a can. Use cow manure only for making this, as if chemicals were used there would be some danger in overfeeding the plants or else burning the roots. Before applying the liquid manure make sure that the plants are wet enough. Better water them with clear water first and then follow with the liquid afterwards, using it as strong as it can be made with cow manure alone. If it cannot be applied without getting some of it on the foliage, syringe the plants lightly with clear water to remove all traces of it. If this is not done some of the leaves are liable to get scorched and thus disfigure the looks of the plants if the damage is not serious enough to hurt them otherwise.

Ventilation

See that your men have the houses up early enough in the morning so that they do not run up too high before the air is put on. Better keep a little air on all night long, even though it does take a little coal to make up the difference. It will be money well spent, for the returns will be there in the end, even though there is no sign of an immediate increase. Just note that all the places that are paying well burn coal almost all the year round, except in the extremely hot weather. Then note that the places which are always struggling never burn coal unless it is freezing outside. There is a limit to burning coal, too, but when common sense tells us to give the plants heat we should let them have it instead of letting them go without, and feel that we have gained. Give them what they must have, for if they do not get it they will not produce the cut flowers.

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Dissuading the buyer

For many years the receptive newspaper reporter has been the "easy mark" for the vain and stupid brand of florist, a character not so plentiful now as formerly but still to be found here and there, ever ready to unload panicky nonsense on anyone ready to swallow it. Listen to an Ohio newspaper for example—a publication undoubtedly ready and willing to help along the custom of Easter flower buying, if wisely coached—in its issue a few days before Easter.

"'Order your Easter flowers early—or you won't get any at all,' is the word that florists are passing out to customers. Yesterday marked the beginning of the Easter floral rush. The dearth of flowers is attributed to the long run of dark weather during the spring."

Many dollars are cut out of the aggregate income of the florist business by such injudicious and usually untrue stuff, which is read by thousands upon thousands of readers whose trade the florist needs and would have if they were coaxed rather than discouraged.

The previous question

The many reports of excess Easter plants and flowers left over after the big event to clog and burden the week following, emphasize the fact that it is often harder to sell stock than it is to grow it. The depression which has trod so provokingly on the heels of a good Easter is greatly to be regretted and is difficult to explain other than that the surplus left over was given the right of way in such small business as came to the retail dealers and the normal outlet for the fresh product was thus cut off. The Easter surplus, which in some districts embraced both plants and flowers and in others was chiefly composed of one or the other, was, of course due, in a broad sense, either to an excessive production or restricted distribution. We are not ready to believe that the production of plants and flowers has yet reached the limit of legitimate consumption in this country—far from it. So our distribution methods must bear the responsibility for these relapses which bring dismay to the grower and put the dealer into a perplexing dilemma. The solution of the distribution problem is still far off, apparently.

California's credentials

The selection of location for the 1915 convention of the Society of American Florists and Ornamental Horticulturists assumes unusual importance this year because the Society is asked to cross the continent—from Boston on the Atlantic to San Francisco on the Pacific—in that year. There are many members who profess to believe that such a project cannot possibly be carried through in an extreme eastern city where the attendance will be overwhelmingly eastern and that a strong invitation from a city more centrally located would carry the day against the California metropolis even with the great inducement of the Panama-Pacific Exposition thrown in. Considering the dozen other reasons that are advanced against the tremendous journey to the Golden Gate in August which the majority of the regular S. A. F. attendants would have to face, it is evident that the Panama-Pacific advocates have an up-hill struggle before them. But there are some elements of fairness that should not be lost sight of. Although so remote from the scenes of the S. A. F. activities that participation in convention work or convention pleasures was practically out of the question, California has usually been creditably represented on the S. A. F. membership list as compared with states more fortunately situated. At the present time California has more members in that organization than Maryland; twice as many as Connecticut and District of Columbia together; more than all New England, outside of Massachusetts. Other comparisons might be made, showing a slowness of growth and apparent lukewarmness of S. A. F. support in sections floriculturally strong and favorably located to take an active part in the affairs of the national society as compared with places far remote, but the above will suffice.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The chief feature of the April meeting of this organization was a talk on Orcharding by Prof. R. C. Rees of the Massachusetts Agricultural College. It was an intelligent and exceedingly interesting and practical presentation in concise language of the fundamental principles of apple growing. The outlook for the apple grower in New England was shown to be promising and good reasons were advanced in proof that there is no danger of the business being overdone. Better methods must be adopted to meet the more critical demand. Sites for orchard purposes, the necessity of protection from high winds, soils, drainage, etc., were all touched upon. The lecturer warned against too much faith in untried new candidates, naming several which are not making good in New England as compared with the old staples. The kind and size of trees to plant, (one-year-old being favored) methods of culture, pruning, spraying, (the most important single operation in the orchard), insect and fungus pests, harvesting and grading were successively considered and then the speaker was plied with a score or more of queries, all of which he answered convincingly.

Prof. A. H. Nehrling, successor to Prof. White at Amherst, being called upon, spoke briefly on his plans to make the department more helpful to the florists of the state and made a favorable impression.

Secretary Craig told of the recent visit of the club to the W. W. Edgar place and of the trip of the landscape class to Brookline where the members were hospitably entertained by F. E. Palmer. Communications were read from M. C. Ebel on "cooperation," from John Young on "affiliation," from Theodore Wirth on the "Convention Garden," and several others. Thomas Roland asked that the matter of S. A. F. affiliation which had been announced for discussion be laid on the table, pending the consideration of the matter by the special committee appointed by the S. A. F. Executive Board at its recent session in Boston and after a brief expression by Mr. Palmer of his ideals for the future unity for the mutual good of all interests, private or commercial, in explanation of his zeal and eagerness in the affiliation campaign, Mr. Roland's motion was unanimously carried.

Notice was given of the Greater New England Agricultural and Industrial Exposition to be opened in Springfield shortly and Secretary Craig was confirmed as a representative on the Advisory Board of that project.

The sum of $500 was appropriated from the club's treasury towards the entertainment fund for the S. A. F. Convention next August.

The display of flowers on the platform was unusually beautiful. F. E. Palmer showed a pair of standard Dorothy Perkins roses in bloom in 8-inch pots. Secretary Craig was represented by some vases of magnificent antirrhinums cut from plants which he said had been blooming continuously since October 1. He also showed some fine trumpet narcissi. Spanish irises from H. Waldecker & Bros. and hydrangea from Duncan Finlayson, a specimen plant of a rare Cyrtopodium from Chas. Sander and two vases of very fine antirrhinums with heavy dark foliage, from Peter Fisher completes the list.

WILLIAM R. NICHOLSON

We present herewith the portrait of William R. Nicholson, Chairman of



WILLIAM R. NICHOLSON

the local Committee on Sports, for the Boston S. A. F. Convention, which was missing from the gallery of portraits in our issue of April 4. Does he look the part?

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public Notice is hereby given that Charles L. Baum of Knoxville, Tenn., offers for registration the carnation described below. Any person objecting to the registration or to the use of the proposed name is requested to communicate with the secretary at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Growers Description—A Pure Carnation Parentage. Boston Market X Lady Bountiful. Fuller than Bountiful and larger—2½ to 3 inches. Well high-built flowers. Very fragrant. Extra good substance and a long keeper. Bushy growth. No surplus grass. Every shoot gives a bloom. Height is 18 to 24 inches. Healthy grower. Easy propagater. Color pure snow white at all times. Full round flower with perfect calyx. Never splits. Will bloom 10 months in the year. The most prolific variety we have ever grown.

Name: "Dr. Sam."

JOHN YOUNG, Secretary.

LANCASTER COUNTY FLORISTS' CLUB.

April 16th seemed to be a busy day in Lancaster as we only mustered about 15 for our visiting trip. The first stop was at Ira Landis, Paradise, Pa., and a floral paradise at that with yellow dasies, Mme. Perret pansies, snapdragons, lupins, mignonette, myosotis and calendula as well as a number of houses to carnations, Scarlet Wonder and Eureka being especially fine. At Elmer and Chas. B. Weaver's sweet peas and carnations are found here by the thousands, Chas. B. makes a specialty of peas, and he has a light blue and a light pink that will make a sensation if he ever allows them to get on the market. He also has a seedling of the Spencer type that is an improvement and a beauty. A house of Comfort here reversed the opinion of a good many on this variety, for it certainly was right up to the mark. Elmer Weaver tried out a house of White Wonder as a second year proposition and had a wonderful crop of flowers with the quality about as good as from the younger plants. At this place we found about 200,000 astor plants in paper pots for their own planting.

At H. D. Rohrer's his own introduction, Scarlet Wonder, was in evidence, fulfiling the full promise of its name. Orchid-flowering sweet peas were here in quantity. They grow a few side lines in calceolarias, pelargoniums, etc., and every thing is just a little better than any one else has it. Mr. Rohrer is fortunate in having his two sons, Harry and Abraham, with him and to this fact is due part of the quality always found here.

The meeting was given over to the co-operative buying question and the flower show, with a side line of exhibits of orchid-flowering peas from H. D. Rohrer, a specimen light blue hydrangea, from B. F. Barr, some new geraniums from J. P. Siebold and some Enchantress Supreme carnations from Carl Brackbill.

The co-operative buying committee called for a short experience meeting and found that quite a bit of money had been saved by the members, one saving on a single purchase enough, as he said, to pay his dues in the club for the next ten years.

The flower show committee consisting of A. M. Herr, Rudolph Nagle, Harry Rohrer and Chas. Edgar reported having gone as far as they could with arrangements until a date was fixed. The club decided on Nov. 5th, 6th and 7th as the best time. The committee reported having secured the co-operation of the various Civic Associations of the city and also having the amateurs in line for a large exhibit in this class.

Frank Kohr, Elmer Weaver and H. M. Moore were appointed a committee to arrange for our summer outing and the meeting adjourned to meet May 21st.

ALBERT M. HERR.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting of the Nassau County Horticultural Society was held April 8th, at Pembroke Hall, Glen Cove, N. Y. Special prizes for the fall shows were received from Burnett Bros., Stumpp & Walker, Peter Henderson & Co., A. T. Boddington, W. E. Marshall & Co., Vaughan's Seed Store, F. E. Conine, Julius Roehrs Co., and M. Stapelton.

A letter was read from the National Association of Gardeners, inviting the appointment of a committee of three on co-operation to work with the similar committee of the N. A. G. Mr. Wilkinson, of N. Y. State Dept. of Agriculture gave an instructive address on Home Gardens. F. E. Conine also addressed the meeting by request. Afterwards Mr. Duthie spoke of the vegetables shown at some of the N. Y. State Fairs which are usually a collection of monstrosities of the vegetable kingdom, dumped on a table, instead of a vegetable exhibit such as are staged by the average private gardener, and the secretary was instructed to write to Mr. Wilkinson to see what could be done to better conditions. "Let quality and not size prevail." Judges' awards were made as follows:

Trumpet Narcissus—J. W. Everitt, 1st; tulips—H. Gaut, 1st; hyacinths—F. Honeyman, 1st. Certificates of culture were awarded to H. Gaut for a collection of greenhouse-grown vegetables and herbs; F. Honeyman, for specimen Schizanthus, and H. Gaut for new Holland tris. Honorable mention to Jas. McCarthy for carnations and Jas. Macdonald for tulips.

After the meeting a social and smoker was held and refreshments were served. J. J. Levesson of the Brooklyn Parks will give an illustrated lecture on Long Island Trees on Thursday afternoon, May 7th, at the Glen Theatre, Glen Cove. Dates for this society's shows are as follows: Rose show, June 9th; Dahlia show, Oct. 6th; chrysanthemum show, Oct. 29th and 30th. Exhibits for next meeting, Wednesday, May 13th, 7 P. M., Dawin tulips, flowering shrubs and lettuce.

HARRY JONES, Cor. Secy.

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Cottage Gardens Co., Queens, N. Y., register Carnation Cottage Maid; a sport from Mrs. C. W. Ward. Deep flesh pink. Size 3½ to 4 inches. Habit identical with that of Mrs. Ward. Flower of slightly superior form.

Chas. L. Baum, Knoxville, Tenn., registers Dr. Sam; Lady Bountiful X Boston Market. Color white. Size 2½ to 3 inches. Fuller flower than Bountiful and well built up in centre. Very fragrant. Extra good substance, making it a fine keeper and shipper.

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ANTIRRHINUMS AT THEIR BEST.



The accompanying picture depicts the vase of antirrhinum shown by John B. Urquhart before the Newport Horticultural Society last week and described in HORTICULTURE.

The picture does not do the subject justice, but an idea of the quality of the flowers may be had when it is considered that the spikes were six to over seven feet tall and some carried over fifty blooms each. The colors varied from pure white to dark crimson.

COOK COUNTY FLORISTS' ASSOCIATION.

The regular monthly meeting of the Cook Co. Florists' Association was held April 16th at The Tavern, Chicago. A communication from John Young, secretary of Society of American Florists, and another from W. J. Keimel, vice-president for Northern Illinois, relating to the proposed affiliation with the S. A. F., were read and discussed. No action was taken. A letter from J. F. Ammann, Edwardsville, Ill., secretary of the Illinois State Florists' Association, in reply to a communication regarding the increased express rates on short hauls, was listened to with interest.

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The tremulous music of the brooklets, burst
Fresh from their icy bondage. Hark! The first,
Sharp tapping of the golden wing! The hills
All suddenly alive! Young Spring, her hand
Fragrant with arbutus, looks o'er the land.

Almon Hensley.

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CORNELL UNIVERSITY.

New Appointments in the Department of Floriculture.

At a recent meeting of the Agricultural Council of Cornell University two appointments to the staff in the Department of Floriculture were made. These were the appointment of David Lumsden of the New Hampshire College of Agriculture, as assistant professor of floriculture, and Clark L. Thayer of the Massachusetts Agricultural College as assistant in investigation. Mr. Lumsden comes to the University splendidly fitted for the work. He is a man of wide experience, of pleasing personality and speaks easily and clearly. He is a graduate of the Sleaford Collegiate School of London, England, and also of the Veitchian School of Horticulture where he specialized in floriculture. For a number of years he was employed in glass houses on private estates in England, and for two years before coming to America was in charge of the glass-house department for growing flowers and fruits and also in charge of the room and table decorations of the Duke of Westminster, from whom he holds a testimonial of high efficiency. Since coming to this country nineteen years ago, Mr. Lumsden has spent thirteen years in practical work on commercial places and six years at the New Hampshire Agricultural College where he has been in charge of the work in floriculture. He has been very active in grange and extension work in New Hampshire, and for several years has had the management of the horticultural exhibit at the state fair.

Mr. Lumsden comes to the University highly recommended for his strong moral character, his efficiency as a grower of cut flowers and potted plants, also as a designer. President Fairchild of the New Hampshire Agricultural College, Director Kendall of the Experiment Station, W. N. Craig, secretary of the Boston Gardeners' and Florists' Club; Wilfrid Wheeler, secretary of agriculture of Massachusetts; Peter Fisher, W. H. Elliott, Thomas F. Galvin and the W. W. Edgar Company are among the many who have given Mr. Lumsden strong recommendations for the position at Cornell. Mr. Lumsden is a member of the Royal Horticultural Society of London and of many American horticultural societies. His work at Cornell will consist mainly of teaching, extension lecturing, and the greenhouses will be under his direct supervision.

Mr. Thayer is a native of Enfield, Mass., and a graduate of the Massachusetts Agricultural College in the class of 1913. During the past year he has been doing graduate work at the Massachusetts Agricultural College and has assisted in teaching. The short courses during the past winter were under his direct supervision. Mr. Thayer will study for an advanced degree at Cornell and assist in investigational work.

The staff of the Department of Floriculture at Cornell is now the largest of any in the United States. It consists of the following:

Professor Edward A. White, head of the department; Dr. Alvin C. Beal, professor of investigation; David Lumsden, assistant professor; Roland H. Patch, instructor; Alfred C. Hottes, instructor in investigation; Miss Lua A. Minns, instructor; Clark L. Thayer, assistant in investigation; Miss Julia Z. Kelly, secretary and curator; Arthur B. Cornelius, gardener; David Murray, assistant gardener.

LEAF-TYERS AND LEAF-MINERS.

Parker Thayer Barnes, of the Pennsylvania State Department of Horticulture writes that he has found considerable damage in two establishments in the vicinity of Pittsburgh, from a small gray moth known as the greenhouse leaf-tyer. It seems to be most fond of chrysanthemums, but infests other stock. The larvae, a green worm about one-half an inch long feeds on the under side of the leaf, eating up through to the skin or epidermis of the leaf, but not through it. Most of these feeding places are about three-eighth of an inch long and half as wide.

Mr. Barnes says: "I understand that the pest is generally distributed among growers of chrysanthemums. One place complained very bitterly because it was introduced from a big chrysanthemum specialist.

"The leaf-tyer is very easily held in check or entirely destroyed by spraying infested plants with arsenate of lead—one ounce of the paste to a gallon of water. If the dry arsenate of lead is used, one-half that quantity is sufficient. Personally, I prefer to use the dry, or powdered form of the poison. When spraying, hit the under sides of the leaves. It is of no use on the upper sides of the leaves because the larvæ do not feed there.

"Apparently a new pest has shown up to bother the Indian azaleas. One large importation last fall contained some small white cocoons. Samples submitted to the office did not bring a reply and I have since found that they proved to be leaf miners, and Prof. Chittenden has been unable as yet to locate just what the little beggar is. But it has seriously damaged the looks of the azaleas by making small brown spots in the leaves. I would advise anyone importing azaleas this fall to carefully examine the plants and if these little white cocoons are present, either pick off leaves having them and destroy them, or fumigate the plants with hydrocyanic acid gas."

Danbury, Conn.—Fire caused from an overheated chimney caused damages of $1,500 to the office building and boiler room of E. E. Mathewson's greenhouse on North street April 14.

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7-9 in. (300 bulbs to case)	$7.00	$60.00
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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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HELIOTROPE, fine short bushy plants, 2¼ in., $1.75 per 100; $15.00 per 1000.
COLEUS, Golden Bedder and Verschaffeltii or mixed R. C., 60c. per 100; $5.00 per 1000.
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FUCHSIAS, 2¼ in. pot, $1.75 per 100; $15.00 per 1000.
FEVERFEW, Little Gem, $2.00 per 100.
VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.
AGERATUM, 2¼ in. pot, $1.50 per 100; $12.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.
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DRACAENA INDIVISA, 4 in. pot, $8.00 per 100.
ENGLISH IVY, R. C. $1.50 per 100.
ACHYRANTHES LINDENII, 2¼ in. pot, $1.50 per 100.
TRADESCANTIA, in 3 varieties, R. C. $1.00 per 100.

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Anemone Japonica Rubra, 3-inch pots	1.00	7.00
Anemone Japonica Rosea Superba, 3-inch pots	1.00	7.00
Anemone Japonica Whirlwind, 3-inch pots	1.00	7.00
Artemisia Lactiflora (new), 4-inch pots	1.50	10.00
Artemisia Stellariana, 3-inch pots	.85	6.00
Asclepias Tuberosa, strong roots	1.00	7.00
Asters, Hardy (Michaelmas Daisies), in variety, 3-inch pots	1.00	7.00
Boltonia Asteroides and Latisquama, 3½-inch pots	.85	6.00
Callirhoe Involucrata, 3½-inch pots	1.00	7.00
Campanula Medium (Canterbury Bell), 4-inch pots	1.00	7.00
Centaurea Montana, 4-inch pots	1.25	8.00
Centaurea Montana Alba, 4-inch pots	1.25	8.00
Chrysanthemums, Hardy Pompons, 25 varieties, 2¼-inch pots	.60	4.00
Chrysanthemums, Shasta Daisy, 3-inch pots	.85	6.00
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Clematis Davidiana, 3-inch pots	.85	6.00
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Dielytra Spectabilis, strong roots	1.25	8.00
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Doronicums, in variety, 3-inch pots	1.25	8.00
Eupatorium Ageratoides, 3½-inch pots	1.00	7.00
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Feverfew Little Gem, 3-inch pots	.85	6.00
Funkia Coerulea, strong roots	.85	6.00
Funkia Subcordata Grandiflora, white, strong roots	1.25	8.00
Funkia Undulata Media Picta, variegated, strong roots	$1.25	$8.00
Gaillardia Grandiflora, 4-inch pots	.85	6.00
Gypsophila Paniculata, strong roots	.85	6.00
Gypsophila Paniculata fl. pl. (new), 5-inch pots	2.00	15.00
Helenium Autumnale Superbum, 4-inch pots	1.00	7.00
Helenium Autumnale Rubrum, 3-inch pots	1.50	10.00
Helenium Autumnale Riverton Beauty, 3-inch pots	1.50	10.00
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Heuchera Sanguinea, 3-inch pots	1.50	10.00
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Hollyhocks, Single, in choice mixture, strong pl'nts	1.50	10.00
Hollyhocks, Allegheny, in choice mix., strong pl'nts	1.50	10.00
Iris Germanica, choice named, strong plants	.85	6.00
Iris Germanica, fine mixture, strong plants	.60	4.00
Iris Kæmpferi, choice named, strong plants	1.25	8.00
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Lobelia Cardinalis, 3-inch pots	.85	6.00
Lupinus Polyphyllus, 5-inch pots	1.50	10.00
Lupinus Polyphyllus Albus, 5-inch pots	1.50	10.00
Lupinus Polyphyllus Mœrheimi, 5-inch pots	2.50	18.00
Lychnis Chalcedonica, 3-inch pots	1.00	7.00
Lychnis Viscaria Splendens, 4-inch pots	1.25	8.00
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Mertensia Virginica, 3-inch pots	1.25	8.00
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Monarda Didyma Rosea, 4-inch pots	.85	6.00
Monarda Didyma Splendens, 4-inch pots	.85	6.00
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Papaver Orientale, choice mixture, 4-inch pots	1.00	7.00
Papaver Nudicaule, choice mixture, 3-inch pots	.85	6.00
Pentstemon Barbatus Torreyii, 4-inch pots	1.00	7.00
Pentstemon Gentianoides Sensation, 3-inch pots	1.25	8.00
Physostegia Virginica, 4-inch pots	.85	6.00
Physostegia Virginica Alba, 4-inch pots	.85	6.00
Physostegia Virginica Speciosa, 4-inch pots	.85	6.00
Pinks, Hardy, choice mixed seedlings, 3½-in. pots	.75	5.00
Platycodon, blue and white, strong roots	.85	6.00
Plumbago Larpentae, 3-inch pots	1.00	7.00
Phlox, best varieties, strong plants	.75	5.00
Phlox Subulata, Rosea and Alba, 3½-inch pots	.75	5.00
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Primula Veris Superba, 3-inch pots	1.50	10.00
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Rudbeckia Golden Glow, strong plants	.85	6.00
Rudbeckia Purpurea, 3-inch pots	1.00	7.00
Saxifraga (Megasea), in variety, 4-inch pots	2.00	15.00
Scabiosa Caucasica, blue and white, 3-inch pots	1.25	8.00
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Sedum Spectabile Brilliant, 4-inch pots	1.50	10.00
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Spiræa Aruncus, clumps	1.25	8.00
Spiræa Palmata, 4-inch pots	1.25	8.00
Spiræa Palmata Elegans, clumps	1.25	8.00
Spiræa Ulmaria fl. pl., 4-inch pots	1.25	8.00
Spiræa Venusta, 3½-inch pots	1.25	8.00
Statice Latifolia, 3-inch pots	1.00	7.00
Stokesia Cyanea, blue and white, 3-inch pots	1.00	7.00
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Thalictrum Aquilegifolium Atropurpureum, 4-inch pots	1.50	10.00
Tritoma Pfitzeri, strong divisions	1.25	8.00
Tritoma Uvaria Grandiflora, strong divisions	1.25	8.00
Valeriana Officinalis, 4-inch pots	1.25	8.00
Veronica Longifolia Subsessilis, 3½-inch pots	1.50	10.00
Vinca Minor, 3-inch pots	.85	6.00
Violets, Double Russian, 3-inch pots	.85	6.00
Viola Cornuta (Tufted Pansies), 4 colors, 3-in. pots	.60	4.00

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Lack of Funds Retards Seed Inspection.

East Lansing, Mich.—As a result of the refusal of the last Legislature to appropriate more than $2,000 to meet the expense of seed inspection under the new pure seed law, the seed inspection department at the Michigan Agricultural College is practically tied up. An average of 100 requests for seed inspections are pouring in at the college daily, although the appropriation for the work is sufficient to foot the bills for less than 20. The seed inspection department is located at the college merely as a matter of convenience and is in no way connected with the institution itself.

Incidentally the tying up of inspections has developed a unique situation. If seed sellers do not submit their seeds to analysis they are liable to prosecution and if they do submit them they will be compelled to wait indefinitely for a report. The only alternative for the sellers, according to college officials, is to sell their produce without a license and take the chance that the state inspectors will not find it out.

In view of the present tangle in the seed inspection department it is altogether likely that an effort will be made during the next session of the Legislature to secure an increased appropriation for the work. Last year an appropriation of $5,000 was asked for but this was cut down to $2,000.

Warning Regarding Maine Seed Potatoes.

Washington, D. C.—On account of the recent discovery of violations of the Maine quarantine regulations, all purchasers of Maine seed potatoes are warned to have their stock examined by the State expert, if possible, before planting. Unscrupulous shippers, it is learned, have been sending diseased potatoes to New York, Boston and other points, where certificates of inspection have been fraudulently attached to the bags. While in general the Maine authorities have endeavored to see that none but sound potatoes left the State, certain inspectors have been negligent and have certified diseased stock. The U. S. Department of Agriculture has, therefore, advised buyers to disregard all certificates issued hitherto.

Notes.

Cleveland, Ohio—Recent callers here were Theo. Cobb of D. M. Ferry & Co., C. L. Hagle of A. J. Brown Seed Co.

Hotel Raleigh has been selected headquarters for the 32nd annual convention of the American Seed Trade Association at Washington.

CATALOGUES RECEIVED.

J. G. Harrison & Sons, Berlin, Md.—Special Apple List.

Frans Van Der Bom, Oudenbosch, Holland—Price List of Roses, Budded on Briar and other nursery stock.

Fraser Nursery Co., Rochester, N. Y.—April 11th List of Boxed Lots of Nursery Stock in Cold Storage in Rochester.

Cherry Hill Nurseries, West Newbury, Mass.—Spring Catalogue of Ornamental Trees, Shrubs and Plants. A very neat, well printed and well illustrated price-list of choice garden material.

J. Woodward Manning, North Wilmington, Mass.—Sixtieth Annual Price List of Hardy Trees, Shrubs, Fruits and Flowers. A "multum in parvo" catalogue, pocket width and strictly up-to-date on choice things.

Bobbink & Atkins, Rutherford, N. J.—Illustrated General Catalogue. A very handsome catalogue in every detail, comprehensive, finely illustrated and a model of good arrangement. Covers the entire horticultural field, 148 pages. Cover decoration rich and appropriate.

King Construction Co., No. Tonawanda, N. Y.—A Description of the Company Its Manufacturing Facilities and its Product. This is Bulletin No. 47 of the King Construction Co., and is "all to the good" as an enlightener on the scope and facilities of the company and the quality of its product. Profusely illustrated.

Beverly, Mass. — In a campaign against the tent caterpillars, Beverly Farms schoolboys have gathered up 49,380 nests. The campaign was under the direction of the Beverly Improvement Society and proved decidedly successful. Figuring 50 caterpillars to a nest, the boys stopped the ravages of nearly 2,500,000 despoilers of the foliage. The city is looking after the brown tail and the gypsy moth.

Cold Storage Valley

Of finest quality for Early and Late forcing in cases of 1000, 500 and 250 pips at $16 per 1000. All expenses paid.

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99 Warren Street, NEW YORK

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Joseph Breck & Sons Corp.

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J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

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GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

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BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

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In making or renovating a lawn, much depends on the Grass Seed Mixture used. Why not have the best?

Our Lawn Grass Mixtures are all composed of the finest quality seeds, and under normal conditions, should produce the best results. The formulas used are the result of a lifelong experience with grasses adapted to lawn making in this country.

Special Mixtures for—Shady Places, Putting Greens, Fair Greens, Sea Shore, Tennis Courts, Terraces

Catalogue on application

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SOW EARLY SEASONABLE SEEDS

STOCKS, ASTERS, VINCA, VERBENA, CYCLAMEN, CINERARIA, SWEET PEAS, ETC.

Write for 1914 Illustrated Catalogue

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HIGHEST GRADE SEEDS — FOTTLER FISKE RAWSON CO. — BOSTON

ASTERS—Rawson's Mid-summer

Flowers early in August and continues until frost. Bright Rose, Purple, Lavender, Shell Pink, Pure White, Finest Mixed

Trade Pkt. 35c.; Oz. $2.00

Sweet Peas, Cyclamen, Petunia, Verbena, Lily of the Valley from our own Cold Storage Plant. Our trade list mailed on application

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WHOLESALE ONLY

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S. S. SKIDELSKY & CO.

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Seeds with a generation of finest flowers and vegetables back of them—carefully selected—really tested.

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$10.00 per 100

In five colors

WHITE CRIMSON ROSE PINK CARMINE

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Dwarf Double Pearl. Extra large size

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SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

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Place your order now for Ayres' Winter Flowering

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We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

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Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

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The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Hattiesburg, Miss—Henry Meyer.

Salem, Mass.—Joseph R. Hamilton.

Hamilton, O.—G. A. Beckmann, 3 Main street.

Ashtabula, O.—Foust & Lockwood, Lawton block.

Reading, Pa.—Hoskin, the Florist, 923 Penn street.

Bloomfield, N. J.—J. J. Brozat, 554 Bloomfield avenue.

Louisiana, Mo.—Elmwood Floral Co., 503 Georgia street.

Gloversville, N. Y.—Thomas Barson, Bearcroft building.

STEAMER DEPARTURES

Allen

Pretorian, Boston-Glasgow..April 29

American

New York, N. Y.-S-hampton..May 1
St. Paul, N. Y.-S'hampton....May 8

Atlantic Transport

Minneapolis, N. Y.-London....May 2
Minnewaska, N. Y.-London....May 9

Cunard

Pannonia, N. Y.-Mediter'n..April 28
Carmania, Boston-Liverpool.April 28
Lusitania, N. Y.-Liverpool..April 29
Campania, N. Y.-Liverpool...May 6

French

La Provence, N. Y.-Havre..April 29
France, N. Y. Havre.....May 6

Hamburg-American

Victoria Luise, N.Y.-Hamb'g.April 30
Pretoria, N. Y.-Hamburg...April 30
Cleveland, Boston-Hamburg.April 30
Kn. Aug. Vic., N. Y.-Ham'rg.May 7

Holland-America

Potsdam, N. Y.-Rotterdam..April 28
New Amst'm, N. Y.-Rotter'm.May 5

Leyland

Bohemian, Boston-Liverpool..May 2

North German Lloyd

Kr. Wm. der Gr., N.Y.-Br'n..April 28
Prinz Fr. Wm., N. Y.-Br'n..April 30
Kr. Wm. II., N. Y.-Bremen...May 5

Red Star

Vaderland, N. Y.-Antwerp...May 2

White Star

Arabic, Boston-Liverpool....April 28
Adriatic, N. Y.-Liverpool....April 30
Oceanic, N. Y.-So'hampton...May 2
Baltic, N. Y.-Liverpool.....May 7

Baltimore, Md.—Geo. V. Smith, 1130 West North avenue.

Glens Falls, N. Y.—J. L. Watkins & Son, 125 Main street.

Oskaloosa, Ia.—Kemble Floral Co., 119 High avenue east.

Greensboro, N. C.—Greensboro Floral Co., 211 S. Elm street.

Memphis, Tenn.—Mrs. Lillian White, Lord Floral Co., 243 Madison avenue.

Clarksburg, W. Va.—The Hayman Greenhouse Co., Oak Hall building, Main street.

Pittsburgh, Pa.—The firm of Paul & Feeney has changed hands and will be known as Paul & Swarts.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
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Deliver orders from any part of the country to
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Or OUT-GOING STEAMERS
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Artistic Work. Reasonable Prices.
Prompt Delivery of Steamer Orders.
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"FLOWERS BY TELEGRAPH"

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Send flower orders for delivery in Boston and all New England points to
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F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

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Flowers or Design Work
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The Far-Famed Flowers of
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All Transfer Orders Filled Under Personal Supervision

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—Fred A. Danker, 40 Maiden Lane.
Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosary, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Aves.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway
New York—Alex. McConnell, 571 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4226-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D C.—George H. Cooke.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Fulton, Ill.—John Dykeman, of Clinton, has purchased land north of the St Paul depot and, in partnership with Albert Wiersema, will erect greenhouses.

The three able lieutenants of H. Bayersdorfer & Co., Messrs. S. H. Bayersdorfer, Martin Reukauf and Sidney Green, camped at the Quincy House, Boston, during the past week with a display of Memorial Day specialties filling three large show rooms and were the centre of interest for a large number of florists from New England points, to whom Memorial Day means one of the busiest and most profitable holidays of the year. Those who failed to get to town to see this gorgeous array will do well to send to the Philadelphia headquarters for a copy of the Silent Salesman which tells all about them.

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MAX SCHLING
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Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
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Penn the Florist
"Penn, The Telegraph Florist"
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Transfer your orders for flower or plant deliveries to
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St. Paul, Minn.
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Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

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440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

WASHINGTON NOTES.

The condition of Fred H. Kramer, who for a number of days has been confined to his home by illness, is said to be greatly improved. Mr. Kramer was threatened with pneumonia and his many friends are expressing gratification over his recovery.

The commissioners of the District of Columbia have instructed the police officials to give particular attention to the matter of licenses. It is said that there has been a marked dropping off of applications for pedlars' licenses this year. From the number of street vendors, this hardly seems possible. One month prior to the time of expiration of the present licenses, the police will distribute blank applications for renewals thereof and will shortly after investigate to see to what extent the law providing for licenses is being obeyed.

Gude Bros. Co., handled the church decorations and those at the Pan American Building last week on the occasion of the Floyd-Portner wedding. The color scheme was carried out in pink and white. The edifice was banked forty feet high with palms and ferns and there was an arch fourteen feet high from which was suspended a cluster of wedding bells, trailed with Lady Gay roses. Along the sides and on the balconies in the rear, at intervals of eight feet, were wall pockets filled with huge clusters of Easter lilies and snapdragon. Pewmarkers and standards at alternate pews were surmounted with clusters of these tied with pink ribbon. The balconies were festooned with smilax. At the Pan American Building, the decorations were mainly of American Beauty roses, palms and ferns. This building is so very beautiful of itself, both as to architecture and interior fittings, that it needs but little in the way of flowers to add to its attractiveness. However, the American Beauties stood out in bold relief against the rich mahogany with which the rooms are fitted. The bride's bouquet was of white orchids and lily of the valley, while those of the nine bridesmaids were arm showers of Radiance roses together with Lady Gay roses.

PHILADELPHIA NOTES.

Yellow primroses bunched like violets are a feature of the Battles display this week. This is an old-fashioned Boston notion seldom seen here.

Mr. and Mrs. John N. May of Summit, N. J., have been on a visit to Robert Craig and many old friends, including Commodore Westcott, had the pleasure of greeting them.

Howard M. Hoffman has been appointed superintendent of the poultry supply department in the Michell seed store, succeeding Dr. Riegler in that connection. Mr. Hoffman has made a fine record as a salesman since coming from Norwich, N. Y., to Michells, and he is now occupying that deserved promotion which comes to all young men with brains and hustle.

John Clark, late of Mt. Desert Nurseries and well known among the fraternity in New England, has been appointed superintendent of the county residence of William L. Austin, Rosemont. We welcome Mr. Clark to our midst and feel sure that all in the trade around Philadelphia will be glad to make his acquaintance and extend friendly greetings as befits the City of Brotherly Love.

William Robertson was presented with a gold watch trophy at the monthly meeting of the Pennsylvania Horticultural Society. Secretary Rust explained in making the presentation that the watch had been given by the Lord & Burnham Co. for the best group of foliage and flowering plants at the spring show. He added that it gave him great pleasure to hand this distinctive and beautiful trophy to Mr. Robertson, whose skill as a grower and worth as a man were known far beyond local confines. What time Mr. Robertson got home that night we do not know, but we hear that he caught the last train all right—thanks to the watch. The Lord & Burnham Co. did a fine thing. It will bear good fruit—Greenwich time.

Visitors:—B. Delaney, rep. J. Chas. McCullough, Cincinnati, O.; W. C. Langbridge, rep. Jerome B. Rice Co., Cambridge, N. Y.; M. C. Ebel, Madison, N. J.; Prof. Nissley, State College, Pa.; Ed. Welch, Boston, Mass.; Edward Towill, Hillside, Pa.

CHICAGO NOTES.

Heating Demonstration.

The John C. Moninger Co. have set up one of their cast-iron section boilers, at their factory this week for like purpose of testing the capacity or potential energy of steam and hot water. They expect to demonstrate by this test, the ability of their boilers to produce the greatest amount of heat from the coal consumed and invitations have been extended to all florists to witness the test. Mr. McKee had provided lunch for all visitors at a nearby restaurant on Tuesday. The demonstration covers three days.

Personal.

Clifford Pruner, one of the best known traveling salesmen in the trade, is home for a few days. He says the Dickinson embezzlement case will be taken up again as soon as opportunity offers.

Mr. and Mrs. E. F. Kurowski left April 17th for an extended European trip. They sail from New York, April 23rd, on the Amerika of the Hamburg American line. Mr. Kurowski is president of the John C. Moninger Co.

Following the Easter rush at the Alpha Floral Co.'s retail store, the proprietor, George Economopolus, had an attack of appendicitis. His condition was so serious, on Wednesday, that he was taken to the University Hospital, where an operation was performed April 16th. At this writing his condition is reported favorable. His partner, August Papas, of the Alpha Floral Co. of Des Moines, Ia., came immediately to Chicago, where he is now ill with grippe at the Palmer House.

Trade Notes.

Poehlmann Bros. are sending out a very neat reminder of Mothers' Day to their patrons, the work of T. Waters.

The spring exhibit at Garfield Park Conservatories has had an encouraging number of visitors each day since the opening, when over fourteen thousand were counted on that day.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

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THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns

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REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

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P. McKENNA & SON

(Established 1851.)

770 St. Catherine St., West

MONTREAL, CANADA

We give Special Attention to Telegraphic Orders

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

Stamford Seed & Nursery Co., 43 Atlantic St.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

MEMORIAL DAY GOODS

THE MOST COMPLETE STOCK OF MEMORIAL DAY SUPPLIES

which we have ever offered to the trade. Besides the usual standard stock of Cycas Wreaths, Magnolia Wreaths, Brown and Green Magnolia Foliage, Metal Designs, Crepe Roses, Dahlias, Mums, Carnations, Orchids, etc., we show Many Beautiful Rapid-selling Novelties of Seasonable Interest.

Don't Fail to Write for Illustrated List

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

BUSINESS TROUBLES.

Mrs. Olivia F. Zinn, treasurer of Zinn's Flower Shop, Inc., 34 West street, Boston, has filed a voluntary bankruptcy petition in the U. S. District Court in behalf of the company.

The liabilities amount to $9350.37. The assets amount to $1,500, and consist of debts due the firm. Of the liabilities, $8,427.87 represents the claims of more than 50 unsecured creditors. The principal unsecured claims are held by C. J. Brink, Inc., South Boston, $121; William Bowditch, Roxbury, $18; N. E. Boyle, Malden, $62.70; Boston Rose Co., Boston, $121.90; A. G. Cartwright, Waltham, $80.50; F. J. Dolansky, Lynn, $67.05; Flower Growers Sales Co., Boston, $57.20; Emery B. Gibbs, Boston, $157.10; Morrill, Atwood Ice Co., Charlestown, $124.01; Nicholson the Florist, Framingham, $113.25; Paine Bros., Randolph, $136.60; H. M. Robinson, Boston, $120.60; Thomas Roland, Nahant, $158.10; A. Leuthy & Co., Roslindale, $137.50; Olivia F. Zinn, Medford, $5,114.75. There is one secured claim for $922.50 held by Susan E. Marshall of West Medford. The company owes Julius A. Zinn, Jr., of Medford, $288 for wages.

The above should not be confused with Julius A. Zinn, Park street, Boston, which is a sound concern, financially and otherwise.

Gustave Thommen, who has charge of the carnation houses at Billerica, Mass., is enthusiastic over the results obtained by the use of Davidge's Special Phosphorus, advertised in Horticulture by the Hudson Carbon Company of Ballston Spa, N. Y. Mr. Thommen says that it brings out the color on leaf and flower better than anything he ever used and that the stems and flowers are larger and stronger in every way than he could ever get them before using this fertilizer. This is saying much for Mr. Thommen's carnations have always been in the front rank in the Boston market.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

SHOW CASE OF SILVER AND CUT GLASS PREMIUMS



Premiums Competed for at the New York Spring Show.

A DAFFODIL SPECIALIST.

Amongst the best known British specialists in daffodil culture is Herbert Chapman, of Rye, Sussex, who has raised several meritorious hybrids. Mr. Chapman cultivates his favorite flower at the base of a steep cliff in southern England. He believes in liberal manuring, and usually prepares the plot by taking a potato or other vegetable crop from it. Double digging is always carried out, a good dose of bone manure and of sea sand being worked in. Mr. Chapman nearly always leaves the plants for two years before lifting them, the exception being King Alfred and other uncertain ones, which are usually lifted and replanted annually. He has paid attention to hybridising doing the past eleven years, having worked with nearly all sections of the daffodil. His favorite seedlings are the Triandrus hybrids—the crosses he has made between the Trumpets and Triandrus, and the Leedsii and Triandrus—and his hybrid Poeticus. Amongst the latter is Rhapsody, obtained from a cross between Herrick and Virgil. Spindrift, one of the Triandrus hybrids, was raised from a cross between White Lady and Triandrus.

W. H. Adsett.

OBITUARY.

Ira P. Hersey.

Ira P. Hersey, employed in various florists' establishments in and about Boston for many years and well-known in the wholesale flower market, was found dead in his bed last Tuesday morning in Woburn, Mass., and circumstances indicate that he committed suicide.

UNITED ICE MACHINES

For Florists and Greenhouses. Hundreds in successful stores everywhere. Let us show you their economy. Ask for Catalog X.

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SNAPDRAGON

$6.00–$10.00 per 100

VALLEY $3.00—$4.00 per 100

GARDENIAS $1.50—$3.00 dozen

KILLARNEY BRILLIANT $6.00 to $12.00 per 100

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Get Your Young Stock Now, to Grow On for Next Season.

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Boston Florist Letter Co.

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N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the BOSTON

Inscriptions, Emblems, etc. Always in Stock.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI April 20	CHICAGO April 20	BUFFALO April 20	PITTSBURG April 20
Am. Beauty, Special	30.00 to 35.00	30.00 to 35.00	..... to 25.00	30.00 to 30.00
" " Fancy and Extra	25.00 to 30.00	20.00 to 25.00	15.00 to 20.00	12.00 to 15.00
" " No. 1	10.00 to 20.00	10.00 to 15.00	8.00 to 15.00	6.00 to 10.00
Killarney, Extra	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" Ordinary	3.00 to 6.00	3.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Richmond, Hillingdon, Extra	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" " Ordinary	3.00 to 6.00	3.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Maryland, Ward, Taft, Sunburst, Ex.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 10.00
" " " " Ordinary	4.00 to 6.00	3.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Russell, Shawyer	..... to	..... to	. . . to . . .	..... to .....
Carnations, Fancy	2.00 to 3.00	3.00 to 4.00	2.00 to 2.50	..... to 3.00
" Ordinary	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00	1.00 to 2.00
Cattleyas	40.00 to 50.00	35.00 to 50.00	40.00 to 50.00	60.00 to 75.00
Lilies, Longiflorum	8.00 to 12.00	8.00 to 12.00	8.00 to 10.00	6.00 to 12.00
Callas	8.00 to 10.00	6.00 to 8.00	8.00 to 10.00	.. .. to 8.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Wallflower	..... to	. ... to	..... to	1.00 to 2.00
Snapdragon	6.00 to 10.00	8.00 to 12.00	4.00 to 7.00	6.00 to 8.00
Daffodils	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00	1.00 to 3.00
Tulips	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00	1.00 to 3.00
Violets	.35 to .50	.50 to .75	.50 to .60	.50 to .75
Pansies	..... to	.75 to 1.00	.30 to .50	.50 to 1.00
Mignonette	4.00 to 6.00	4.00 to 6.00	2.00 to 4.00	4.00 to 6.00
Daises, white and yellow	1.00 to 1.50	1.00 to 1.25	1.00 to 1.50	2.00 to 4.00
Sweet Peas	.50 to 1.25	1.00 to 1.50	.50 to 1.00	.50 to 1.25
Lilacs, per bunch	.. ... to	..... to	..... to	..... to .....
Gardenias	25.00 to 40.00	25.00 to 35.00	..... to	20.00 to 30.00
Adiantum	1.00 to 1.50	1.00 to 1.25	.50 to 1.25	..... to 1.25
Smilax	..... to 15.00	12.00 to 15.00	..... to 15.00	..... to 20.00
Asparagus Plumosus, Strings (100)	40.00 to 50.00	40.00 to 60.00	40.00 to 60.00	40.00 to 50.00
" " & Spren. (100 bchs.)	25.00 to 50.00	35.00 to 50.00	35.00 to 50.00	25.00 to 50.00

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BOSTON FLOWERS

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10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

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WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON Last week's market comments would suffice to tell the story for this week, for there has been no improvement in conditions thus far and no encouragement in sight to give any assurance of immediate revival. The whole question with the wholesale people and growers is how to move the goods out and leave room for the oncrowding succession but it is a struggle against odds, somewhat like that of the old lady who tried to sweep back the incoming tide on the seashore. All market staples are in practically the same predicament. Violets and tulips are fast going off the stage. The retail windows are interesting and attractive with the display of things a little out of the ordinary such as lovely Spanish irises, big yellow daisies, sweet English primroses, brown-hearted calendulas, nasturtiums and cornflowers. The flower fanciers like these things but such trade is little help to the growers of standard goods, whose product finds its most active outlet just now through the street and hole-in-the-wall merchants.

BUFFALO The past week has been a quiet one for all; practically nothing doing throughout except on Saturday which was unloading day and then only a portion of the heavy receipts could be moved. Roses are in extra heavy supply also carnations, sweet peas and every thing else. Lilies are carried along from day to day, with no demand; the same with tulips, daffodils and snapdragons.

CHICAGO The effects of an unusually busy Easter are wearing away and trade has now resumed its normal spring pace. There was not the complete falling off of business that often follows a holiday and few retailers had enough stock left on hand to carry them more than a day or two. The prompt occurence of the after Easter weddings, some of which were quite elaborate affairs, helped to prevent any accumulation of stock and gave an outlet for the quantity of American Beauties that are now being cut, and served to move the lily of the valley. Violet season is regarded as about closed though very good singles are still in the market. Sweet peas are equal to the demand and the quality is usually good. The older common varieties are hard to sell when placed beside the butterflies, but this condition has prevailed all the season. All kinds of roses are inclined to be a little ahead of the demand. Carnations are not nearly so plentiful as roses; all good stock is used up each day. There is still a fair supply of daffodils, tulips and miscellaneous flowers; lilies are in excess of the demand. Ferns continue scarce with no prospect of a change.

CINCINNATI The market seems to be about due for its first real glut of 1914. The extra heavy cut of lilies is the direct cause. Following Easter the florists were all overstocked with them, while more were still arriving. The result is that buyers' prices govern in this line, while the prices in other lines have also dropped. Carnations are about the only flower selling up with any fair degree of regularity. Roses of every kind including even American Beauties are plentiful. The current week is the first time we have had a really adequate supply of good Beauties for quite a long time. The cut of callas continues large and they have at the best only a fair market. Sweet peas are good, but are not selling very fast. Lily of the valley and snapdragons sell poorly. Outdoor daffodils and Poeticus are in. Taking the market as a whole we have a very large supply. Prices are rather low, but the sales are many and cause a fair market condition.

NEW YORK The cut flower market here at the present time is in a deplorable condition. There is an overwhelming abundance of flowers coming into the wholesale district and the demand through established channels has fallen off to almost nothing. This cannot last long as growers will not want to keep their houses running along on unremunerative crops and doubtless many will soon throw out and replant. It is true that the quality of carnations and that of many of the roses is very fine. Either one, however, can be bought in bulk, all grades included, from $5.00 to $10.00 per 1,000. Lily of the valley is not much overstocked and is about the only really bright spot in the market. Bulb stock, usually at the bottom of the list at this season, is doing fairly well at present. Smilax is scarce and price high.

PHILADELPHIA There was a good volume of business for week after Easter but far too many flowers. The start was made Monday with clean ice boxes but two days later they were loaded up. Of course prices broke badly, and sales were soon being made at half or quarter or any old price. Everything is in the redundant list except perhaps lily of the valley and orchids. Roses are tremendously plentiful, the clear weather bringing them along with a rush. Carnations have also suffered in the general slump but not quite so badly as roses. There is

(Continued on page ...)

DAISIES

For a week-end sale, either yellow or white Daisies; good large flowers and long stems.

$6.00 per 1000; 500 at same rate.

VALLEY Special, $4.00 per 100; Extra, $3.00 per 100.

GARDENIAS- Special, $3.00 per doz., $20.00 per 1000; Extra, $2.00 per doz., $12.50 per 1000.

CATTLEYAS—Per doz.: Specials, $6.00, $7.50; Medium, $4.00; Mixed Orchids, $5.00, $10.00, $15.00 boxes.



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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON April 23			ST. LOUIS April 13			PHILA. April 20		
Roses									
Am. Beauty, Special	15.00	to	20.00	40.00	to	50.00	25.00	to	30.00
" " Fancy and Extra	10.00	to	15.00	20.00	to	25.00	15.00	to	25.00
" " No. 1	6.00	to	8.00	15.00	to	18.00	8.00	to	12.00
Killarney, Extra	4.00	to	5.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	.50	to	2.00	3.00	to	4.00	2.00	to	6.00
Richmond, Hillingdon, Extra	4.00	to	5.00	8.00	to	10.00	10.00	to	12.00
" " Ordinary	.50	to	2.00	5.00	to	6.00	3.00	to	8.00
Maryland, Ward, Taft, Sunburst, Extra	4.00	to	6.00	6.00	to	8.00	6.00	to	8.00
" " " " Ordinary	1.00	to	2.00	3.00	to	4.00	2.00	to	5.00
Russell, Shawyer	4.00	to	15.00	.....	to	.....	5.00	to	15.00
Carnations, Fancy	1.50	to	2.00	4.00	to	5.00	3.00	to	4.00
" Ordinary	.75	to	1.00	2.00	to	3.00	2.00	to	3.00
Cattleyas	20.00	to	40.00	40.00	to	50.00	40.00	to	60.00
Lilies, Longiflorum	3.00	to	4.00	12.00	to	15.00	4.00	to	10.00
Callas	4.00	to	6.00	10.00	to	12.00	5.00	to	10.00
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	2.00	to	4.00
Wallflower	1.00	to	2.00	.....	to	.....	1.00	to	2.00
Snapdragon	2.00	to	8.00	4.00	to	5.00	4.00	to	10.00
Daffodils	1.00	to	2.00	3.00	to	4.00	1.00	to	3.00
Tulips	1.00	to	2.00	3.00	to	4.00	2.00	to	3.00
Violets	.40	to	.50	.35	to	.60	.50	to	.75
Pansies	.50	to	1.00	.....	to	.....	.50	to	.75
Mignonette	2.00	to	4.00	4.00	to	5.00	2.00	to	4.00
Dasies, white and yellow	.50	to	1.00	1.00	to	2.00	1.00	to	2.00
Sweet Peas	.40	to	.75	.40	to	2.00	.20	to	1.50
Lilacs, per bunch	.....	fo	.....	.....	to	.....	.35	to	1.25
Gardenias	12.00	to	20.00	.....	to	.....	6.00	to	25.00
Adiantum	75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	25.00	to	30.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	50.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	25.00	to	50.00

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THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 18 1914	First Half of Week beginning Apr. 20 1914
American Beauty, Special	15.00 to 20.00	15.00 to 20.00
" " Fancy and Extra	8.00 to 10.00	8.00 to 10.00
" " No. 1	2.00 to 8.00	2.00 to 8.00
Killarney, Extra	2.00 to 6.00	3.00 to 4.00
" Ordinary	.50 to 2.00	.50 to 2.00
Richmond, Hillingdon, Extra	3.00 to 6.00	3.00 to 6.00
" Ordinary	.50 to 2.00	.50 to 1.00
Maryland, Ward, Taft, Sunburst, Extra	3.00 to 6.00	3.00 to 6.00
" " " Ordinary	1.00 to 2.00	.50 to 2.00
Russell, Shawyer	3.00 to 8.00	3.00 to 8.00
Carnations, Fancy Grade	1.50 to 2.00	1.00 to 1.50
" Ordinary	.50 to 1.00	.50 to 1.00

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Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
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383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(*Continued from page 645*)

a big glut of Easter lilies and callas. The daffodil market also very bad. Large supplies of southern stock have been coming in for which there was little sale at any price. Also lots of greenhouse daffodils. Growers are very unwise to bring these in so late when they must butt up against the southern stock. They should have been all past by this time. Snapdragon also took a big slump. But why continue the doleful tale. The outlook promises better, as the buyers will have got over their Easter surfeit and should be around again in normal force.

ST. LOUIS During the week following Easter, the business in retail and wholesale circles was good, from a retail standpoint. There were a number of fashionable weddings and other social work and the market was easy with plenty of first-class stock. Local growers have been off crop for quite a while, and are now coming in full crop, and the chances are before the end of the week prices will suffer greatly. Stock of all kind sold cheap all last week. Carnations are beginning to come in large lots. Roses are also more than the demand can consume at present. Bulb stock is quite heavy now and cheap prices prevail in order to dispose of them.

WASHINGTON There is a plentiful supply of all kinds of flowers in the market at present, far more than the demand will take care of, as following the Easter business trade has been rather slack. While satisfactory to a certain extent, the Easter business of 1914 was not just what it should have been. The call was mostly for the less expensive plants and for corsage bouquets, etc., customers did not feel like paying any more than they absolutely had to. Few of the growers or dealers cleaned up in other than fair shape and the great majority have been using lilac blossoms, Rambler roses and other flowers, cut from numerous left-over plants, in decorations.

PERSONAL.

Miss Mae Carroll of Cincinnati is taking an extended business trip through the East.

Thos. Windram of Cincinnati leaves this week for another trip to the Lake Shore Ferneries, at Leesburg, Fla.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Apr. 18 1914	First Half of Week beginning Apr. 20 1914
Cattleyas	20.00 to 35.00	20.00 to 35.00
Lilies, Longiflorum	1.00 to 3.00	1.00 to 3.00
Callas	3.00 to 6.00	3.00 to 8.00
Lily of the Valley	3.00 to 4.00	2.00 to 3.00
Wallflower	1.00 to 2.00	1.00 to 2.00
Snapdragon	1.00 to 4.00	1.00 to 4.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Violets	.40 to .50	.25 to .50
Pansies	..... to	..... to .....
Mignonette	.50 to 4.00	.50 to 4.00
Daises, white and yellow	.50 to 1.00	.50 to 1.00
Sweet Peas (per 100 bunches)	6.00 to 8.00	6.00 to 8.00
Lilacs (per bunch)	..... to 1.00	..... to 1.00
Gardenias	6.00 to 12.00	2.00 to 15.00
Adiantum	50 to 1.00	.50 to 1.00
Smilax	16.00 to 25.00	16.00 to 25.00
Asparagus Plumosus, strings (per 100)	20.00 to 50.00	20.00 to 50.00
" " & Spren (100 bunches)	15.00 to 50.00	15.00 to 50.00

PROPOSED RHODE ISLAND STATE RESERVATION.

The State of Rhode Island is considering a proposition to purchase Mt. Hope for a State reservation. A provisional measure will be introduced in the General Assembly within a few days.

The tract of land to the State contains about 400 acres, a great deal of which borders on the shores of Mt. Hope Bay. The purchase price, it is said, will be in the vicinity of $150,000.

Outside of the natural beauty of the place, historical events have made Mt. Hope one of the most noted sections connected with the earliest Colonial days. It was the home of Massasoit, sachem of the Wampanoags, whose treaty of peace with the Plymouth colony existed for more than 40 years and whose friendliness prevented a famine among the colonists when Massasoit carried 30 bushels of corn, raised on Mt. Hope, to Plymouth.

Many of the original features of Mt. Hope still remain. Historical societies have marked the place where King Philip was shot and killed at the close of the campaign against the Indians by Capt. Church, and also the spot on the top of Mt. Hope, 200 feet above the bay, where Philip had his lookout. King Philip's seat, from which the great Indian chieftain is said to have delivered his famous address to John Borden, is one of the picturesque spots on the grounds.

The plan in mind is to make Mt. Hope the terminus of the metropolitan park system. Mt. Hope is southwest of Bristol and across the bay from Fall River and Tiverton.

Macon, Mo.—Robert R. Shoush has leased the Still-Hildreth Sanatarium greenhouses for three years.

VISITORS' REGISTER.

Cincinnati—B. F. Hensley and B. F. Hensley, Jr., of Knightstown, Ind.; Joseph Hill and Fred Lemon, Richmond, Ind.; R. De Jonge of Schortinghuis & De Jonge, Boskoop, Holland.

Philadelphia:—B. Delaney, rep. J. Chas. McCullough, Cincinnati, O.; W. C. Langbridge, rep. Jerome B. Rice Co., Cambridge, N. Y.; M. C. Ebel, Madison, N. J.; Prof. Nissley, State College, Pa.; Ed. Welch, Boston, Mass.; Edward Towill, Hillside, Pa.

Boston — S. H. Bayersdorfer, Sid Green and Martin Reukauf, representing H. Bayersdorfer & Co., Philadelphia; George S. Hampton, Philadelphia; Robert Shoch, representing Rice Co., Philadelphia, Pa.; L. J. Reuter, Westerly, R. I.; Winfried Roelker, New York City; A. F. Faulkner, New York City.

Chicago:—Swan Peterson, Rockford, Ill.; Frank Fernback, Rockford, Ill.; Rine & Son, Humboldt, Ia.; E. M. Irby, Memphis, Tenn.; Chas. Siebrecht, Winona, Minn.; J. J. Karins, representing H. A. Dreer, Philadelphia; Sam'l Seligman, New York; Roger Peterson of J. A. Paterson & Sons, Cincinnati, O.; L. M. Mason, Streator, Ill.; J. T. Thornton, Streator, Ill.; John Frisz, Vincennes, Ind.; Andrew Peterson, Hoopeston, Ill.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 3-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
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Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

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Asparagus Plumosus—Fine 3-in., $4.00 per 100. Cash, please. J. W. MILLER, Shiremanstown, Pa.

ASTER SEEDS

Michell's Seed House, Philadelphia, Pa.
Aster, New Crego.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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August Rolker & Sons, New York.
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BAY TREES—Standard and Pyramids. All sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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BEGONIAS

BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

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BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

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Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

Conard & Jones Co., West Grove, Pa.
Swastika Brand Cannas.

108 of the best varieties. Send for new complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION PLANTS — From 2¼-in. pots, 1000 Commodore, $50.00. FRANK P. PUTNAM, P. O. Box 12, Lowell, Mass.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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Chrysanthemum Novelties for 1914.
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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c, $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

SINGLE CHRYSANTHEMUMS
from 2¼-in. pots.

	100
Yellow Mensa	$10.00
Mensa. Finest White	5.00
Celia. Lemon Yellow	5.00
Cha. Kingsley. Fine Yellow	5.00
Mary Pope. Large Pink	5.00
Hilda Wells. Tuscan Red	4.00
Mary Richardson. Salmon	4.00
Mrs. Heneage. Yellow Anemone	4.00
Pompons—Lula, white; Souvenir d'Or, orange and bronze	3.00

FRANK P. PUTNAM,
P. O. Box 12, Lowell, Mass.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

200,000 GIANT FLOWERING CYCLAMEN. For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas, to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

CYCLAMENS from 5 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

Thomas Roland, Nahant, Mass.
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Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias. 800,000 Clumps to offer. Send your list of wants to the Largest Dahlia Grower in the World. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

Dahlias—Clean, healthy stock, fully matured, novelties and standard varieties, true to name and at reasonable prices. Also Gladioli, field-grown Hollyhocks, Herbaceous plants, etc. Send business card for catalogue. W. W. WILMORE, Box 382, Denver, Colo.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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Choice young stock, all sizes and bulblets; Mrs. F. King, Dawn, America, Independence, Scarsdale, Klondike, Mixtures, etc. Prices low to close out surplus Write for price list or special quotation on quantity wanted. BROOKLAND GARDENS, Woburn, Mass.

Groff's mixed, light colors, 1-in., $5.00 per 1000. Groff's hybrids, mixed, all colors, 1-in., $5.00 per 1000. C. PEIRCE, Dighton, Mass.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale FRANKLIN BARRETT Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list

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The New French Hydrangeas.

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IRIS

Iris pallida dalmatica, beautiful lavender color, strong grower; now is the time for planting this most beautiful of all the German iris; strong divisions, $10.00 per 100; $75.00 per 1000. J. A. PETERSON & SONS, Wholesale Plant Growers, McHenry Ave., Westwood, Cincinnati, O.

IRRIGATION SPRINKLER

J. P. Campbell, Jacksonville, Fla.
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IVY

German Ivy, 2 to 2½ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

KENTIAS

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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J

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Robin Hill Nurseries, Chelmsford, Mass. Large Specimen Evergreen and Deciduous Trees.
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Otto Heinecken, New York City.
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PANSY PLANTS

125,000 large, stocky (September transplanted), field-grown, blooming pansy plants; Henry Mette's strain, all salable stock, satisfaction guaranteed, $1.00 per 100, $10.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

PEONIES

J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass
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PHOENIX

Phoenix Canariensis, fine large plants, $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PHYSOSTEGIAS

PHYSOSTEGIA VIRGINICA, field grown, strong, $3.50 per 100, $30.00 per 1000. W. E. KING, Little Silver, New Jersey.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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King Construction Company, N. Tonawanda, N. Y. Shelf Brackets and Pipe Hangers.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa. "Riverton Special."

POINSETTIA PULCHERRIMA

A. Schultheis, College Point, N. Y.
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RAFFIA

McHutchison & Co., New York City.
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United Refrigerator & Ice Machine Co., Kenosha, Wis. United Ice Machines.
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Bobbink & Atkins, Rutherford, N. J.
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ROSES

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Robert Craig Co., Philadelphia, Pa.
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W. & T. Smith Co., Geneva, N. Y. American Grown Roses.
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W. H. Elliott, Brighton, Mass. Young Rose Stock of High Quality.
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Bay State Nurseries, North Abington, Mass.
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Bobbink & Atkins, Rutherford, N. J.
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Eastern Nurseries, Jamaica Plain, Mass.
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August Rolker & Sons, New York City.
For page see List of Advertisers.

Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

SCOTCH HEATHER

Eastern Nurseries, Jamaica Plain, Mass.
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SEED GROWERS

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Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Carter's Tested Seeds, Boston, Mass., and London, England. "Seeds with a Lineage."
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Peas, Beans, Radish and all Garden Seeds
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Sweet Peas.
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Loechner & Co., New York City.
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Seeds for Florists.
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Burnett Bros., New York City.
Seasonable Seeds.
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Stamford Seed & Nursery Co., Stamford Conn.
Quality Sweet Pea Seeds.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.
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Asparagus Plumosus Nanus, Florida grown seed, any quantity. Send for prices Seedlings and transplanted plants. PETER MACK, Box 172, Orlando, Fla.

SLUG SHOT

Hammond's Paint & Slug Shot Works, Beacon, N. Y.
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SNAPDRAGONS

G. S. Ramsburg, Somersworth, N. H.
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SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country. Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED

Arthur T. Boddington, New York City.
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TRITOMAS

Let me hit you with the poker. Tritoma Pfitzeri, red hot poker, strong crowns, $5.00 per 100. THOMAS J. OBERLIN, Sinking Spring, Pa.

TUBEROSES

J. M. Thorburn & Co., New York City.
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VEGETABLE PLANTS

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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VERONICAS

VERONICA LONGIFOLIA SUBS., field grown, or 3 in. stock, $3.50 per 100, $30.00 per 1000. W. E. KING, Little Silver, New Jersey.

WEED KILLER

Pino-Lyptol Chemical Co., New York City.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

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Albany Cut Flower Exchange, Albany, N. Y.
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M. C. Ford, 121 West 28th St.
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EVERYTHING IN HARDY PERENNIALS.
Henry A. Dreer, Inc., Philadelphia, Pa
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J. H. Small & Sons, New York, Washington.
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GLADIOLUS PRINCEPS.
Michell's Seed House, Philadelphia, Pa.
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ROSA LUCIDA ALBA WANTED.
Eastern Nursery Co., Jamaica Plain, Mass.
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Waltham, Mass.—James T. Silman and Matthew F. Ruane, the Moody street florists, fell victims to a check swindler last Friday, and lost eight dollars apiece.

The man went to the stores and said that he was a member of a certain patrotic organization in Waltham and wanted to have a floral piece sent to the funeral of a man who was a member of the organization. The man said he wanted to buy a piece worth seven dollars and would pay cash. He tendered a check for $15 and received $8 in change at both stores. That evening Mr. Silman made inquiries of the officers of the society whom the man said he represented and learned that nobody had been delegated to buy flowers in the name of the association.

In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

PEIRCE PAPER FLOWER POT

Superior to ANY OTHER pot for shipping purposes.

Saves weight and space for the shipper.

Best of protection against damage by frost.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.



DREER'S

Florist Specialties, New Brand. New Style. Hose "RIVERTON"

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.

Couplings furnished

HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass

For particulars address

John G. Esler, Sec'y Saddle River, N.J.

NEW CORPORATIONS.

Mobile, Ala.—Citronelle Nursery & Orchard Co., capital stock, $6,000. Incorporators, L. Reeves, Mina Reeves, R. L. Scott.

Belleair, Fla.—Royal Poinciana Nurseries, capital stock $25,000. Incorporators, Chas. R. Hall, R. T. Wedding and O. A. House.

Jersey City, N. J.—William H. Lutton Company, capital stock $50,000. Incorporators, W. H. Lutton, F. L. Young, J. A. Greene.

Louisville, Ky.—Cherokee Nursery Company, capital stock $50,000. Incorporators, Edward Wilder, Chas. E. Gould and Chas. P. O'Brien.

Birmingham, Ala.—Gorman-Gammill Seed & Dairy Supply Co., capital stock $10,000. Incorporators, J. B. Gorman, C. K. Gammill and J. B. Gammill.

East Orange, N. J.—Holland-American Nursery Company, capital stock $10,000. Incorporators, David C. C. Sepp, J. P. Metzer and John Hay.

PATENTS GRANTED.

1,092,818. Weed - Extractor. David Bittner, Jr., St. Louis, Mo.

1,093,006. Lawn-Sprinkler. Charles A. Nelson, Chicago, Ill.

1,093,168. Lawn-Mower. Robert W. Boydstun, Natchitoches, La.

1,093,400. Weed Puller. Daniel Gottfried, Kansas City, Kan.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

SITUATIONS WANTED

WANTED—Position as head gardener. Scotchman, age 31, married, thoroughly competent to take charge of private estate, desires position as above. Experienced in orchids, carnations, roses, etc. Fruit, inside and out, flower and vegetable gardens. Lawns, shrubs, farm stock and poultry. Address with full particulars, W. HAY, Box 273, Bernardsville, N. J.

SITUATION WANTED as gardener, inside or out, on private estate. Life experience—fruit, chrysanthemums, orchids, etc. First-class references. Age, 38; English. Address "P," care HORTICULTURE.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—A nice residence; 9 rooms; having all latest improvements—city water, steam heat, electricity; two wells; three greenhouses; across from a Cemetery. Very suitable for a florist. Address J. P. THEVE, Norwich, Conn.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.

Directions on every package



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.
31 Union Stock Yards, Chicago

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

Sold by the Seed Dealers

Office of ALFRED GOLDRING, Florist, Cobleskill, N. Y., March 17, 1914

HAMMOND'S SLUG-SHOT — I SLAY BUGS — 1880 — 1880 — KILLS INSECTS, SAVES FOLIAGE — TRADE MARK REGISTERED IN U.S. PAT. OFFICE

We use Hammond's **SLUG SHOT** on Currant Bushes in the Spring before the leaves are started. We put it on around the roots and have done it for two years, and find that the worms are killed before they get on the bush. For Potatoes we put on **Slug Shot** as soon as the bugs come, and we have good vines, plenty of tubers and no bugs. It is the best thing we have ever used. **For Sow Bugs in greenhouses it is sure death.** We had a lot of them before using Slug Shot, but they get out where it is used.

ALFRED GOLDRING.

Hammond's Paint & Slug Shot Works, BEACON, N. Y.

PINO-LYP-TOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N. Y.



Ram's Head Guano

100 lbs. $2.00

WM. ELLIOTT & SONS

42 Vesey St., New York

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

BIG BLOOMS

and Strong Plants guaranteed. Mix **DAVIDGE'S SPECIAL PHOSPHORUS** with planting and potting soil. After roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

HUDSON CARBON CO., Ballston Spa, N. Y.

Cocoanut Fibre Soil

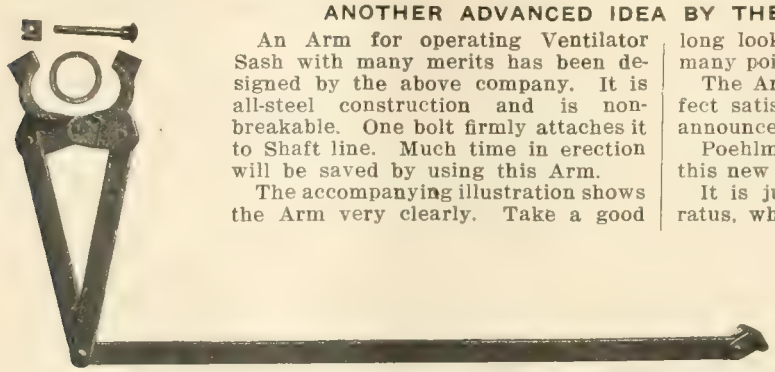
This is the Real Nature's Humus. Use it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., [illegible]

ANOTHER ADVANCED IDEA BY THE ADVANCE CO., OF RICHMOND, IND.



An Arm for operating Ventilator Sash with many merits has been designed by the above company. It is all-steel construction and is non-breakable. One bolt firmly attaches it to Shaft line. Much time in erection will be saved by using this Arm.

The accompanying illustration shows the Arm very clearly. Take a good long look at it, so you will become acquainted with the many points of convenience and merit.

The Arm has been thoroughly tested and has given perfect satisfaction. Thousands are in use right now. This announcement was delayed, to be absolutely correct.

Poehlmann Bros. Co., of Morton Grove, Ill., are using this new Arm throughout the new range they are building.

It is just as good as the ADVANCE Ventilating apparatus, which has an established reputation that is unequaled. The same concern that placed the IRONCLAD GUARANTEE on Ventilators placed a like guarantee on these Arms.

You can't go wrong if you will consult the ADVANCE CO. concerning your requirements for Ventilating apparatus or Greenhouse Fittings.

Mention Horticulture when you write.

GREENHOUSES BUILDING OR CONTEMPLATED.

Tionesta, Pa.—C. A. Anderson, house, 18 x 75.

Moorestown, N. J.—F. W. Armstrong, one house.

Kinston, N. C.—Mrs. H. C. Edwards, one house.

Port Richey, Fla.—Herms & Snyder, one house.

Bangor, Me.—A. J. Loder, Main St., two houses.

Marshfield, Wis.—T. D. Hefko, additions and alterations.

Cleveland, O.—H. W. Clark, Lorimer road, range of houses.

Bangor, Me.—Adam Sekenger, 22 Newberry street, additions.

Muskegon, Mich.—L. Wasserman, range of houses, 110 x 140.

Elm Grove, West Va.—John Dieckman, range of rose houses.

Plymouth, Ind.—Miss Mary A. Resler, two houses, each 25 x 100.

Westerly, R. I.—S. J. Reuter & Son, Lord & Burnham house 43x175.

Newark, N. J.—H. C. Strobell & Co., 783 Broad street, house, 30 x 60.

Belleair, Fla.—Charles R. Hall, West Central avenue, range of houses.

47

Bulletin No. 47

A description of this company, its facilities and its product will interest you if you are interested in

GREENHOUSES

Write for your copy today.

KING CONSTRUCTION COMPANY

28 King's Road, North Tonawanda, N.Y.

All the Sunlight All Day Houses

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

THE BARRIE FORCING FRAME

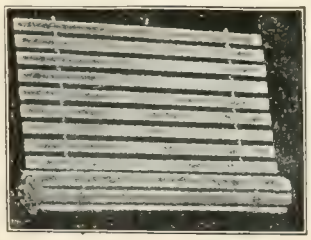
GIVE IT AN HONEST TRIAL.



Set out six early tomato plants, two weeks or more before the usual time, under BARRIE FORCING FRAMES.
Set out the balance of the row in the usual way.
Later on compare the earliness, quality and yield.
You will then know WHY the BARRIE FORCING FRAME is a good investment for the garden.

For Descriptive Literature and Full Information, Address

GEORGE N. BARRIE, Brookline, Mass.



THE ORIGINAL MAKER OF

GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring samples and explain how it works.

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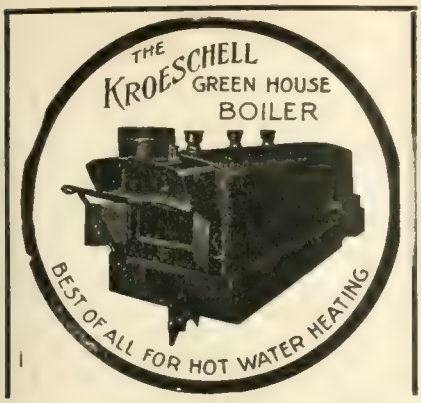
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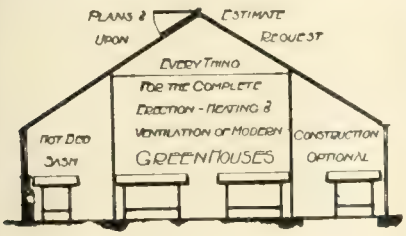
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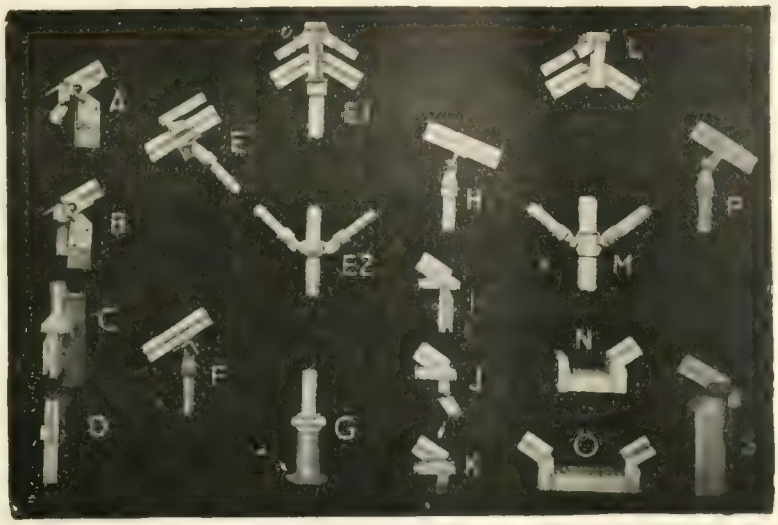
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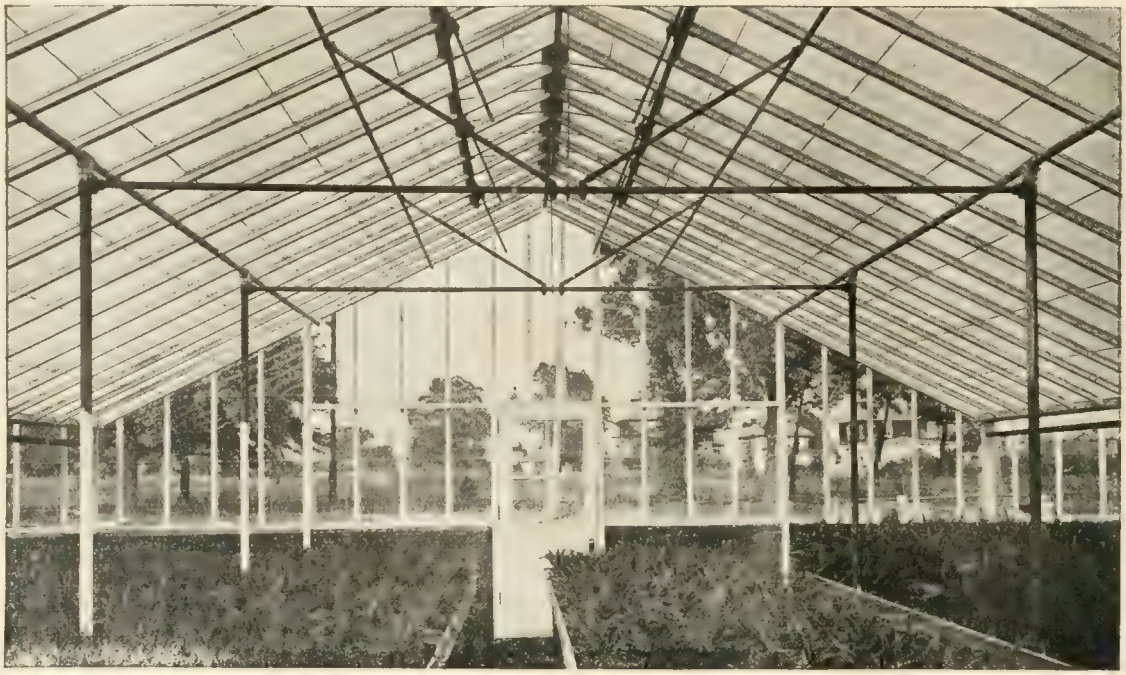
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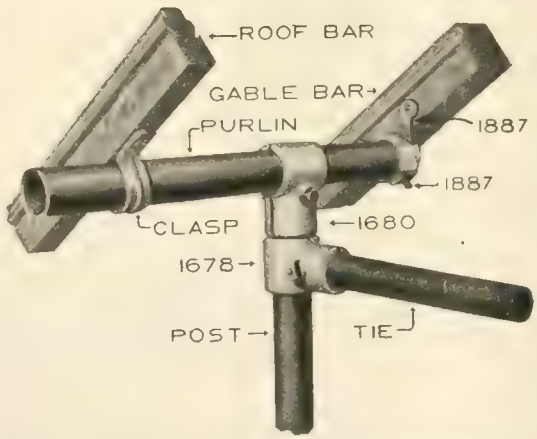
With the Gable Rafters bolted to the iron posts—which extend to the height of the eaves all around—this rigid gable framing is greatly simplified. Now practically all that remains to be done are the sides and glazing.

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Vol. XIX
No. 18
MAY 2,
1914

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Bedding Plants and Roses

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY NEW YORK BOTANICAL GARDEN

Primulas

Primulas should be grown cool. Fifty degrees at night is ample. The young plants want to be kept near the light, but need a little shade from the direct sun. Sowing primula seed is still seasonable. You will not get as fine Christmas plants as from the earlier sowings, but they can be grown into nice little stock in 5-inch pots which is a convenient size for marketing. Primula seed wants a brisk moist heat to germinate, but the plants themselves should never be subjected to any forcing conditions. The earliest sowing should now be in 2½-inch or 3-inch pots. The compost should be light, equal parts of leaf-mold not too much decayed, and loam with a little sand. After the middle of May they should be grown in a cold frame and if they are partially plunged in fine coal ashes all the better. A spraying overhead each afternoon will be beneficial.

Chrysanthemums

The chief trouble now is to keep the plants watered. Dry winds, small pots and a rapid growth combine to make the chrysanthemum a very thirsty plant these days, and if stock is allowed to dry out a few times the black fly comes, and comes to stay. Give syringings every good day as evaporation is so rapid that not the least harm will result but on the contrary a whole lot of good. A vigorous spray all over the house several times a day lowers the temperature many degrees and makes life more endurable for the chrysanthemums, to which the intense heat of a modern greenhouse is a very unnatural condition.

Hydrangeas for Memorial Day

The hydrangea sells better around the end of May than at any other time of the year. Plants that were started soon after the middle of March in a cool house should be in fine shape for Memorial Day trade. At this time they should have plenty of light. To be right for Memorial Day the buds should now be well exposed and by the second week in May they should show their rosy pink tint. To have fine foliage and large flower heads give them manure water twice a week until they show color, when it should stop. With the long sunny days they will want plenty of water at the roots. Give good syringing on all bright days; this can be continued until they show plenty of color. A week before they are needed they should be gradually hardened up in cooler quarters. This will help to intensify their coloring.

Marguerites

Marguerites will now require several waterings daily. One good drying out means the loss of many flowers. Marguerites grown for cutting should now have the pots or boxes stood on the beds or benches so that they can root through. They will want frequent feeding or the stems will not have the length or the flowers the size we would like to see. Late-rooted stock should not be left in the cutting bench or in small pots too long. These will sell well at the bedding out season, and even if all are not sold then they can be planted outdoors and will make fine bushy plants for lifting in the fall. Take advantage of every good day and ventilate, as marguerites require plenty of fresh air.

Lily of the Valley for June Forcing

Blooms of fine quality can be produced in frames after the early part of May. All that is necessary is a well built, close frame. Put six inches of sand over the manure and plant the pips as you would in a frame in the greenhouse. The frame can be partitioned so that two or more batches can be kept coming on. Don't overdo the heat or you will get leggy stalks. For June cutting when the demand is quite heavy a frame should be prepared at once. It takes about three to four weeks to flower lily of the valley, provided the proper bottom heat and top temperature can be given it. Keep close and dark until the stalks are half grown. Then gradually increase the light. Use no water overhead after the flowers are expanding for fear of spotting them. At this season there is less danger from this cause than in winter.

Sowing Grevillea robusta

Now is a good time to make a sowing of Grevillea robusta. These will make fine plants for next year's use. Sow the seed in flats, using any good light soil, and give them a good hot house which will bring seed up quicker. When they are large enough pot into small pots in rich compost.

Mr. Farrell's next notes will be on the following: **Bedding Plants; Cinerarias; Memorial Day Trade; Orchids; Planting Dahlias; Sowing Annuals Outside.**

Boston Convention Garden

The Convention Garden, notwithstanding the inclement weather, has so far advanced that ornamental trees, shrubs and herbaceous perennials may be sent now. Tender plants, such as cannas, geraniums and other bedding plants can be shipped after May 20th. All such plants should be addressed to Boston Park Department, Back Bay Fens, Boston, Mass., and marked "Convention Garden," care of James B. Shea.

Angraecums

Besides the beautiful Angræcum sesquipedale illustrated in last week's issue of HORTICULTURE there are a number of very interesting and useful species. A. eburneum, shown in the accompanying picture, is a noble species and the flowers last a long time either cut or on the plant. This species might well be called the giant of the family, but the genus contains some very dwarf species also; for instance, A. distichum and A. falcatum. A. distichum has very short, imbricate leaves and minute pure white flowers which are produced singly from the axils of the older leaves and last about eight or ten days. This species is best grown on a small block of wood with a little fern root or live sphagnum to root into. Angræcum falcatum is a native of northern China and Japan and succeeds best in the cool house or the cool end of the intermediate house. It is a very neat little species, producing its white sweet-scented flowers at different times of the year. It is best grown in a small pan or basket, with a little osmunda fibre and live sphagnum for a compost.



ANGRAECUM EBURNEUM

With the exception of A. falcatum all the angræcums require warm treatment and as they are nearly always growing they should not be allowed to remain dry for any length of time. In summer, when they are in full growth, they will enjoy a high temperature and a good supply of water at the root and a good buoyant atmosphere, but much less water will be required during the dull, short days of fall and early winter. A night temperature of 65 degrees to 70 degrees will be about right in winter, with 10 degrees to 15 degrees more during the day according to outside weather conditions.

All the larger growing species will be best grown in common flower pots, filling the pots within 2 inches of the rim with broken potsherds, surfacing the remainder either with live sphagnum or osmunda fibre or both. Should the compost become sour at any time it should be removed at once and fresh material applied after washing out the remaining drainage with a good force from the hose. Shading from now on will be in order on all bright days until the first or middle of October; after which time the sun will have lost its burning power and the plants will enjoy all the light they can get.

M. J. Pope

The Proper Basis for Affiliation

The Society of American Florists and Ornamental Horticulturists has grown to be a rich, powerful organization. Organized to advance the love of horticulture and floriculture and to hold exhibitions of horticultural products, this Society has benefited by the labors and endeavors of its offspring. The specialty societies have done a part of the work belonging to the parent organization and should be recognized. These offsprings have grown to maturity and the Society of American Florists and Ornamental Horticulturists should subsidize these societies from its treasury to aid them in carrying out the work and not ask overburdened specialty societies to affiliate with it on a basis that will make their financial burden greater and help to swell an unneeded surplus.

Let us have co-operation with common sense. The work is being done and the laborer worthy of his hire.

Wallace R. Pierson.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Blackspot on the Young Plants

If you have a bunch of Beauties in four-inch pots or smaller that are beginning to crowd one another, keep a sharp lookout for blackspot for it will creep in before you are aware and then there will be a good piece of work for some one. These foggy days that we have once in a while during the spring seem to be an ideal time for it to start. Look the plants over carefully, and then take a little time and just reset them, picking off all the yellow leaves that may be at the bottom, and setting the tall plants to the north of the bench. All the green scum that may appear here and there may be removed, too, and thus the plants will be given a good overhauling. If blackspot appears it is advisable to spray at once with the ammoniacal copper carbonate mixture. This will not cure the disease but will go a good ways towards keeping it from spreading. Use every possible precaution in watering, and if the plants are well free from red spider do not syringe them for a while. Keep them on the dry side, being careful, however, not to allow them to become too dry, for this would lead to more of the spot. After watering take a little lime and blow it all through the house in the evening. It does not have to be blown under the plants or even over them; merely blow it around above the walks, so that the dust goes through the house. This will dry the air out a good deal, and will be a great help to prevent the spot from spreading. We are seldom troubled with spot on the other varieties of roses; in fact we do not even look for it, but with Beauties we like to be on the lookout all the time.

Outside Roses

Now is the very best time to get all the weeds out of the roses that are planted outside for summer blooming. The ground is nice and soft, being wet and if a hold is secured on the top of the weed all the roots will come up with it, thus doing away with it altogether. If this is let go until the ground dries out a little bit, the weeds will be difficult to pull, and it will be almost impossible to get them out. Get them out now, or there will be trouble with them all summer long.

Trimming

If the outside roses have not been pruned and trimmed it is high time this was attended to, for they will be growing soon, and that means just so much energy saved, if they are pruned in time. Mulching should be seen to at once, too, for delay will mean broken branches or buds, for the most careful man will break a few now and then.

Tying

Do not neglect to keep the plants tied up in nice shape all along. There may be a good deal of other work rushing but the old houses if given any care at all will produce a wonderful lot of cut flowers, and these, even if they do not bring as much as they did during the winter, will help pay the coal bill just the same, for the expense in getting them is next to nothing compared with the expense that they put us to in the fall or in winter. For tying material we find nothing better than the cheap one-ply jute that can be bought quite reasonable by the pound in barrel lots. There are several grades of this and it certainly does not pay to get the very cheapest. This is usually so poor that a lot of it is wasted, and then it is likely to be very uneven in thickness, thus causing delay in tying. Raffia is nice but too expensive for commercial use, and then a good deal of time is wasted splitting it, and wetting, etc. We do not advise using white grocery twine for tying as it will shrink and later choke the plants, wherever it circles around the shoots. Needless to say the growth should be well spread out when tying and not bunched up in the least, especially on the staked teas. Some will insist on running a string all around the plant, drawing in all the growth at the one tying. This method may well be called the lazy man's way, for there is nothing that looks worse than a job half done. Well-done is done twice, and good work will pay better in the long run.

Cleaning Up

The annual house cleaning which come around every spring should be carried to the greenhouses as well, and all the old leaves that have been brushed under the benches by careful (?) workers should be brushed out and taken away to be plowed in the cornfields or some other place where they will help produce something useful instead of breeding bugs and germs in the greenhouse. The potting shed will stand it, too, and there may be some boilers that are no longer in use that should be cleaned and oiled, and note made of all the parts that may be giving out within a short time. Take the smoke pipes down and clean them, for the soot will eat them up if they are allowed to remain half full of soot. This will get damp and then it will work. If you wish to test its strength put a little of it into a tin can or galvanized pail, and then see how long it will be without holes in the bottom. Boilers are affected the same way, but they are thick, and will not rust through in a little while.

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Ill-advised zeal

Judging from some of the florist literature now circulating it would appear that up to the present time people have been very unmindful of the veneration due to their respective mothers. To remedy this lamentable neglect certain philanthropically inclined florists and trade publications have now undertaken to instruct the public in giving proper expression to this most commendable virtue. As a first step we are informed that it becomes necessary that each and every one having a mother living or a mother dead should don a flower on just one day in the year and of such a color that the rest of the world may make no mistake as to where the wearer stands. We note that there has developed quite a rivalry between certain of our esteemed contemporaries as to which one is entitled to the credit of having discovered the commercial possibilities in exploiting a "Mothers' Day" based upon the new inspiration. A year ago, in commenting upon the innovation, we ventured to question whether the public would "fall" for this somewhat precarious campaign, and, contemplating its possible ultimate effect on the standing and dignity of the florist business, we suggest now that some time may be wisely given to questioning whether the "credit" for its introduction shall carry with it the award of a gold medal of honor or be dismissed with a vote of censure. Florists who respect themselves and their profession are presumed to deprecate "crepe chasing," so-called, but this annual extolling of the virtue of filial affection and entreating people to honor their mother on a specified date by purchasing flowers appears not so very different, only in degree, and comes with ill grace from the man who wants to sell the goods wherewith to honor. "The voice is Jacob's voice but the hands are the hands of Esau."

Outgrown methods

We all profess to take pride in the onward and upward progress of the flower industry towards a position of dignity and stability among the various lines of business which have a place in every well-ordered community. But what would be the impression upon any business man accustomed to generally accepted methods of merchandizing who would look into the wholesale prices as quoted for the trade papers from various flower markets not even widely separated from each other? After noting a variation of from fifty to one hundred percent for goods presumably identical he would be justified in coming to the conclusion that the florist business is yet in a very primitive and chaotic state. Referring to the need of a wider market and more stable values for the cut flower product, we suggested a year ago, in these columns, that the public-spirited gentlemen who were giving time and thought to the solution of the problem might wisely consider ways and means whereby an approximate estimate might be made of the prospective supply of certain leading flowers in the producing sections in advance of any occasion when an augmented demand might be expected, thus gaining information on which some fairly accurate prospectus of the available crops might be based for the benefit of the trade and a reasonable standard of values established. Had such a canvas been made of the lilies, for example, with a fair degree of thoroughness, previous to the past Easter, we doubt if the fact of these flowers hanging fire at 3 to 6 cents in one market while they were being cleaned up at 10 or 12 or even more, in other markets, would have been possible. We believe the time will come when accurate advance knowledge of this sort will be recognized as indispensable, for the benefit in common of grower, wholesaler, retailer and public.

NOTES FROM THE PANAMA-PACIFIC EXPOSITION.

More than two hundred and twenty conventions, at which more than 500,000 accredited delegates are expected to assemble, will meet at San Francisco in 1915. Among these are 21 agricultural societies, 20 business, 22 educational, 35 fraternal, 7 genealogical, 23 Greek letter fraternities, 15 governmental and civic societies, 5 historical and literary, 15 industrial, 9 labor, 13 professional, 8 religious, 19 scientific and 7 social service.

The National Potato Association of the United States will organize an international potato congress to deal with the production, distribution and marketing of potatoes, and to convene at the Exposition. There will be a similar gathering in regard to alfalfa.

No flowering plant not in full bloom will be allowed to remain upon the grounds at any time throughout the Exposition year, but, according to plans by Director of Landscaping McLaren will be removed in the decline of its blossoming to make way for another in full bloom. The temperate climate of San Francisco will make this continuous procession of blooming flowers throughout the grounds for the entire ten months.

The greatest tulip exhibit ever possible anywhere outside Holland, will be a part of the national exhibit of The Netherlands. Two acres will be devoted these gorgeous flowers.

The twelve main exposition palaces which are now either completed or in course of construction upon the grounds are: The Palace of Machinery, the Palace of Education, the Palace of Food Products, the Palace of Agriculture, the palace of Mines and Metallurgy, the Palace of Varied Industries, the Palace of Liberal Arts, the Palace of Manufactures, the Palace of Transportation, the Palace of Horticulture, the Palace of Fine Arts and Festival Hall.

The Panama-Pacific International Exposition authorities have set aside $1,065,000 for the building of a huge auditorium of permanent fire-proof construction. The main hall will seat 10,000 and several lesser halls from 600 to 1000.

The color scheme of the Exposition will, under the direction of Jules Guerin, the famous artist, be so well developed, that the very tones of pavement and roadway and the color of flowers in the beds of the great exposition gardens will be made to conform.

RHODODENDRONS.



RHODODENDRONS AGAINST BACKGROUND OF CONIFERS

Our cover illustration shows a rhododendron corner at Holm Lea, Professor Sargent's home in Brookline, Mass. The other picture, shown on this page was made, if we are not mistaken, at the H. H. Hunnewell estate, Wellesley, Mass., several years ago. Both places, above mentioned are famed for their rhododendrons. The scene, when they are in bloom, is magnificent in the extreme. The past winter has been one of the severest in a generation and in the wide-spread destruction of spring flowering material it might reasonably be expected that the hybrid rhododendrons would be among the worst sufferers. But it appears that they are not; in fact, they appear as well, perhaps as in any recent year. The foliage is uninjured and flower buds give promise of a full crop. We write only of local conditions on the north side of Boston, having had no opportunity yet to investigate farther, but with a midwinter test of many consecutive days with the mercury at zero or far below, this is cumulative evidence that low temperatures alone have no terrors for rhododendrons of the type of Caractacus, Everestianum, Charles Bagley, Album Elegans, and a score of other equally well-known varieties.



NINE MEMBERS OF THE FLORICULTURAL CLUB OF THE UNIVERSITY OF ILLINOIS

A FLORICULTURAL CLUB AT THE UNIVERSITY OF ILLINOIS.

The eleven students now registered in floriculture at the University of Illinois, at a recent meeting, organized a club to be known as the Floricultural Club of the University of Illinois. The object of the club is "to advance floricultural knowledge and interests by means of papers, talks and discussions, and to promote good fellowship." Mr. August Hecht, a senior, was elected president, Mr. E. G. Lauterbach, vice-president and Mr. Horace Ingalls, secretary-treasurer.

PERSONAL.

Friday, April 24, was Prof. C. S. Sargent's 73rd birthday anniversary.

R. M. Ward of New York left for a visit to Japan last week in the interest of his lily bulb business.

Miss Winnifred Dallachie daughter of A. G. Dallachie, florist, has been appointed supervisor of the work of the home and community gardens of the public schools of Millbury, Mass.

CLUB AND SOCIETY NOTES.

The Van Wert Civic Club has selected Rosa rugosa as the official city flower of Van Wert, Ohio.

The May meeting of the Kansas City Florists' Club will be held at T. J. Noll & Company's store, 1109 Grand Ave.

CLUBS AND SOCIETIES

FLORISTS' CLUB OF WASHINGTON.

The April meeting of the Florists' Club of Washington, was one of the best attended and most interesting of the season. The discussions covered a multitude of subjects, the present Mexican unpleasantness taking up a considerable portion of the time and President Bauer found it quite hard to get the members to come to order to tackle the dry business, which is always to be found at the opening of a meeting.

The regular order of business was hurried through and when this had been taken care of, William F. Gude took the floor and after a short speech presented to Mr. Bauer, on his retirement as president, a handsome cut glass water pitcher ornamented with sterling silver and bearing an Old English "B." The gift came as a great surprise to Mr. Bauer and to many of the members for the whole thing was done very quietly by the committee. Mr. Bauer thanked the members for their kindness and begged to be excused from making a long speech, asking them to accept his thoughts instead of words.

Mr. Gude having taken upon himself the office of toastmaster, proceeded to install the officers and George H. Cooke, the incoming president was called upon for an inauguration speech. He, too, begged off, but made a few statements straight from the shoulder. He promises to spare no efforts to make the ensuing year a most prosperous one for the club, and asked the active support of all the officers and the members and for suggestions as how to advance the club's interests. He stated that from time to time, well known members of the trade from other cities would appear before the club and give short talks and the first of these visitors will be Richard Vincent, Jr., of White Marsh, Md., who will visit Washington in May.

R. L. Jenkins, who was elected to the office of vice-president at the last meeting stated that he would merely "second" the remarks of Mr. Cooke, but that he would always be found on the firing line when there was anything to be done for the betterment of the club. Others among those present had a few words to say and F. J. Michell, of Philadelphia, complimented the members on their selection of officers.

Mr. Gude rendered a report of his recent trip to Boston where he conferred with members of the executive committee of the S. A. F. and O. H. regarding the coming convention. Upon suggestion, Mr. Cooke appointed a committe of five to take up the matter of transportation for there is a possibility of the local club and that of Baltimore and perhaps Philadelphia, and individuals located nearby, joining forces and making the trip to the convention via. the Merchants' and Miners' Transportation Company's boats from Baltimore. The return trip would be made by rail. Quite a number have already signified their intention of attending and it is hoped that a large party will represent the National Capital at Boston in August.

Following the regular business of the evening the success of Mr. Cooke's administration was oft proposed during the serving of the buffet luncheon.

AMERICAN ASSOCIATION OF NURSERYMEN.

The meetings and exhibition of the 39th Annual Convention of the American Association of Nurserymen will be held at The Hollenden, which has been selected as headquarters at Cleveland, on June 24 to 26. A forecast of the business program is given in Secretary Hall's advance bulletin. He says: "Great pains have been exercised to secure an attractive list of speakers on important topics, and members are urged to mark their appreciation of the kindness of these men by according them the courtesy of attendance at the various sessions. It seems almost superfluous to pen this injunction in the face of such an array of practical talent as has been secured, among which are ex-president John Dayton on "Competition;" J. R. Mayhew, president of the Southern Nurserymen's Association, on "Problems of Marketing our Products;" Jefferson Thomas, Jacksonville, Fla., will speak on "Where our Trees are Going;" W. C. Reed will tell of "Pecans for Profit;" the "old man eloquent," C. S. Harrison, of Nebraska, will arouse the enthusiasm of members to the "Mission of Beauty;" John Connon of Annin, Scotland, has agreed to address the Convention on "Trade Conditions on the Other Side;" F. Hogg, of Toronto, will speak for the Canadian nurserymen; Robert Pyle's subject will be "Roses;" Henry Hicks, of Isaac Hicks & Son, will discuss "Fitting Trees to Soil and Climate;" the witty Jim Parker, of Oklahoma, has selected "Water" as his subject, but furnishes no hint as to how he proposes to handle it. Ex-president J. W. Hill of Iowa, and George C. Roeding of California, will also have places on the completed program, which will appear in the Badge Book."

AMERICAN ROSE SOCIETY.

At the last meeting of the Executive Committee of the American Rose Society there was referred to the committee on new roses, application for registration for the following; and which have been now submitted for the purpose of publicity. If there are no objections to the names as received they will be formally entered upon the list of registered roses:

George Burton, Wyndmoor, Pa., presents for registration the Rose "Thora." Sport of My Maryland. A fragrant double, free flowering fairly deep salmon pink, and a very strong grower.

Edward Kress, Baltimore, Md., offers for registration the Rose "Defiance." A cross between Gruss an Teplitz and Etoile de France. Flowers very fragrant, dark velvet red, perfectly double and 5 to 6 inches across. Dark green foliage. Hardy and free ever-bloomer. Introducer has never seen it mildew.

BENJAMIN HAMMOND, Secy.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Annual May Exhibition of the Massachusetts Horticultural Society will be held in Horticultural Hall, Boston, on Saturday and Sunday, May 16 and 17, afternoons only. Admission free. Liberal prizes are offered for Calceolarias and Pelargoniums, and for cut blooms of Spanish Iris, Darwin Tulips, Narcissi and Pansies. Prizes are also offered for Fruit, Vegetables and Native Plants.

WOMAN'S NATIONAL AGRICULTURAL AND HORTICULTURAL ASSOCIATION

A conference will be held at the Pennsylvania School of Horticulture for Women, Ambler, Penna., on May 16, 1914.

The list of speakers is as follows:

Mrs. Francis King, Alma, Mich. Subject: "The True Role of the Horticultural Society."

David Fairchild, Washington, D. C. Subject: "Foreign Food Plants."

Miss Martha Van Resselaer, Ithaca, N. Y. Subject: "Farm Housekeeping."

W. P. Hartman, Medford, Long Island. Subject: "The Grange's Market Bureau."

George T. Powell, New York City. Subject: "Small Fruit Culture for Women."

Walter P. Stokes, Philadelphia, Pa. Subject: "Seed Growing for Women."

Mrs. J. Willis Martin, Philadelphia, Pa. Subject: "The co-operation of the Garden Club of America and the W. N. A. and H. A.

Prof. David F. Warner, State College, Pa. Subject: "Broilers for Profit."

Miss Elsie McFate, Turtle Creek, Pa. Subject: "Hardy Flower Culture."

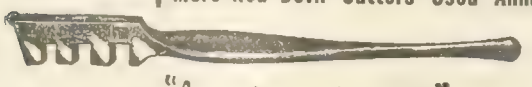
Bertrand H. Farr, Wyomissing, Pa. Subject: "Raising Rainbows."

Transportation—Trains leave Reading Terminal, Philadelphia, for Ambler at 10:15 a. m.; 12:02 and 1.02 p. m. Returning leave Ambler at 1:58, 4:53 and 6.00 p. m. Conveyances will meet trains; transportation to and from school, 50c.

Luncheon will be served at the School, 50c.

Kindly notify Miss Jessie T. Morgan, Director of the School, Ambler, Pa., as soon as possible, if luncheon and conveyance are desired.

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Obituary

Mrs. J. L. Miller.

Mrs. J. L. Miller, for many years in the retail florist business in Newark, Ohio, passed away April 19, after a few hours' illness. She is survived by her son, George L., who was associated with her in business.

Peter Ross.

Peter Ross, a florist of Flushing, L. I., for thirty-three years, died at his home, No. 659 Sanford avenue, Flushing, on April 27. He was born in Balmagown, Scotland, and five years before going to Flushing resided in Great Neck. He was sixty-three years old. He leaves his wife and two daughters.

Arnold Burgers.

Word has just reached this side of the water of the passing away of a distinguished member of the seed trade, Mr. Arnold Burgers, of Barenbrug, Burgers & Co., Arnheim, Holland, who died in the latter part of March, aged 75. While Mr. Burgers was nominally what we know here as a silent partner in the house, he was really much more and his wise counsels and wide experience were always actively at work in building up the great business in natural or fancy grasses for which the firm has a world-wide reputation. His son, Mr. Bernard Burgers, is the junior member of the house of which Mr. Joseph Theodore Barenbrug is the head. Mr. Barenbrug has never visited America, but is



Arnold Burgers

well known to the trade here as the author of "Barenbrug on Grasses" which was published in 1908 and which is very highly regarded by the expert seedsmen and farmers on this side.

Richard Lynex.

A well-known figure in the flower trade of Philadelphia passed away on the 21st ulto. Richard Lynex was familiar to the older generation, having been the original wire-worker in floral designs. He was 92 years of age and since his retirement from business a good many years ago, made his home at Atlantic City. Everybody liked Richard Lynex. He was a whole-souled, companionable man and straight in all his doings. The old-time meetings of the Florists' Club, their outings and their banquets; the Commodore's parties at Waretown, and similar festivities, were never complete without him and to the last he would delight us by singing "Sweet



Richard Lynex
30 Years Ago.

Violets." The interment took place on the 24th at Mt. Peace Cemetery, Philadelphia, and was attended by many old friends. Commodore Wescott did the decorating with loving hands.

Mr. Lynex was a native of Birmingham, England, and came to this country when very young. He proved a credit to us all and leaves a joyful memory behind him. G. C. W.

Lawrence Davenport.

Lawrence Davenport, a retired florist of Lynn, Mass., one of the pioneer residents of that city, well-known and highly respected by people in all walks of life, died at the family home at 58 Butler street early Saturday morning, April 25, following an accident sustained three weeks ago. He was descending the stairs in the rear of his home when he was taken with a fainting spell and fell to the ground. He was picked up unconscious. Since the accident he had slowly declined although after regaining consciousness he had retained his faculties until the end. He was born in Chorley, Lancashire, Eng., Dec. 28, 1836. He came to Lynn with his family in 1864. He secured a position in the Pacific mill. He followed that work for 17 years, when his health declined. He then entered the florist business at 71 Warren street near his present home. He started in the florist business on a small scale when at work in the mill but his business grew to such an extent that when he left the mill he had a very flourishing business.

Those who survive him are a wife and three daughters, eleven grandchildren and two great grandchildren.

Paris, April 29—Philippe-Edouard-Leon Van Tieghem, the French botanist, is dead. He was born in 1836.



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FUCHSIAS, 2¼ in. pot, $1.75 per 100; $15.00 per 1000.
FEVERFEW, Little Gem, $2.00 per 100.
VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.
AGERATUM, 2¼ in. pot, $1.50 per 100; $12.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.
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Aconitum Napellus Bicolor, 3½-inch pots	1.50	10.00
Anchusa, Dropmore Variety, 4-inch pots	1.50	10.00
Anchusa Opal, 4-inch pots	1.50	10.00
Anchusa, Perry's Variety, 4-inch pots	1.50	10.00
Anemone Japonica Alba, 3-inch pots	1.00	7.00
Anemone Japonica Rubra, 3-inch pots	1.00	7.00
Anemone Japonica Rosea Superba, 3-inch pots	1.00	7.00
Anemone Japonica Whirlwind, 3-inch pots	1.00	7.00
Artemisia Lactiflora (new), 4-inch pots	1.50	10.00
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Chrysanthemums, Hardy Pompons, 25 varieties, 2¼-inch pots	.60	4.00
Chrysanthemums, Shasta Daisy, 3-inch pots	.85	6.00
Chrysanthemums, Shasta Daisy Alaska, 3-inch pots	1.50	10.00
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Clematis Recta, 4-inch pots	1.50	12.00
Convallaria (Lily of the Valley), clumps	2.00	15.00
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Delphinium Formosum, 3½-inch pots	.85	6.00
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Dielytra Spectabilis, strong roots	1.25	8.00
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Eupatorium Ageratoides, 3½-inch pots	1.00	7.00
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Hardy Ferns, in variety, 3 and 4-inch pots	1.50	10.00
Feverfew Little Gem, 3-inch pots	.85	6.00
Funkia Coerulea, strong roots	.85	6.00
Funkia Subcordata Grandiflora, white, strong roots	1.25	8.00
Funkia Undulata Media Picta, variegated, strong roots	$1.25	$8.00
Gaillardia Grandiflora, 4-inch pots	.85	6.00
Gypsophila Paniculata, strong roots	.85	6.00
Gypsophila Paniculata fl. pl. (new), 5-inch pots	2.00	15.00
Helenium Autumnale Superbum, 4-inch pots	1.00	7.00
Helenium Autumnale Rubrum, 3-inch pots	1.50	10.00
Helenium Autumnale Riverton Beauty, 3-inch pots	1.50	10.00
Helianthus (Hardy Sunflowers), in variety, 3-in. pots	.85	6.00
Heliopsis Pitcheriana, 4-inch pots	1.00	7.00
Heliopsis Pitcheriana Semi-plena, 4-inch pots	1.00	7.00
Hemerocallis, in variety, strong plants	.85	6.00
Heuchera Sanguinea, 3-inch pots	1.50	10.00
Hollyhocks, Double, in separate colors, strong pl'ts	1.50	10.00
Hollyhocks, Double, in choice mixture, strong pl'ts	1.25	8.00
Hollyhocks, Single, in choice mixture, strong pl'nts	1.50	10.00
Hollyhocks, Allegheny, in choice mix., strong pl'nts	1.50	10.00
Iris Germanica, choice named, strong plants	.85	6.00
Iris Germanica, fine mixture, strong plants	.60	4.00
Iris Kæmpferi, choice named, strong plants	1.25	8.00
Iris Kæmpferi, fine mixture, strong plants	1.00	6.00
Lobelia Cardinalis, 3-inch pots	.85	6.00
Lupinus Polyphyllus, 5-inch pots	1.50	10.00
Lupinus Polyphyllus Albus, 5-inch pots	1.50	10.00
Lupinus Polyphyllus Mœrheimi, 5-inch pots	2.50	18.00
Lychnis Chalcedonica, 3-inch pots	1.00	7.00
Lychnis Viscaria Splendens, 4-inch pots	1.25	8.00
Lysimachia Clethroides, 4-inch pots	1.00	7.00
Lythrum Roseum Superbum, 4-inch pots	1.00	7.00
Lythrum Roseum, Perry's Variety, 4-inch pots	2.50	....
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Monarda Didyma Splendens, 4-inch pots	.85	6.00
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Papaver Orientale, choice mixture, 4-inch pots	1.00	7.00
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Pinks, Hardy, choice mixed seedlings, 3½-in. pots	.75	5.00
Platycodon, blue and white, strong roots	.85	6.00
Plumbago Larpentae, 3-inch pots	1.00	7.00
Phlox, best varieties, strong plants	.75	5.00
Phlox Subulata Rosea, 3½-inch pots	.75	5.00
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Spiræa Venusta, 3½-inch pots	1.25	8.00
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Stokesia Cyanea, blue and white, 3-inch pots	1.00	7.00
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Thalictrum Aquilegifolium Atropurpureum, 4-inch pots	1.50	10.00
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Tritoma Uvaria Grandiflora, strong divisions	1.25	8.00
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Veronica Longifolia Subsessilis, 3½-inch pots	1.50	10.00
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Federal Quarantine Against Maine Potatoes.

Washington, D. C.—A quarantine against Maine potatoes, effective August 1, 1914, has been declared by the U. S. Department of Agriculture on account of the prevalence of powdery scab in that State, particularly in Aroostook county. After August 1, no common or Irish potatoes can be moved out of Maine except under regulations which the Department of Agriculture will publish shortly. Powdery scab has been prevalent for some time among Maine potatoes, but hitherto the State authorities have been responsible for preventing the spread of the disease. With the enforcement of the new quarantine, the Federal Government will take charge of the work. There will be, it is said, no radical change in the existing restrictions.

Chicago Seed Notes.

Arnold Ringier, manager for W. W. Barnard, regards the retail season as just at its height this week. The wholesale trade is still of much importance, though drawing near the close of a season, which he considers to be two weeks late. For this reason the sale of field seeds is not up to the average, especially field grass seeds. Sales of lawn grass seed, on the contrary are very brisk.

This store has just taken on four extra salesmen in the retail section.

Onion sets are cleaning up, very few being left on this market.

Recent seed trade visitors in Cleveland, O., were Tom Hill of Peninsula Seed Co., Port Huron, Mich., and Wm. Emerson of Western Seed and Irrigation Co., Fremont, Neb.

CATALOGUES RECEIVED.

Colprit's Arlington Nurseries, Arlington, Mass.—Price List of Roses, Rhododendrons, Hardy Border Plants, etc.

Marygold Farm, Onondaga Valley, N. Y.—"Some Plants for the Hardy Garden." A pocket pamphlet by Mrs. W. L. Lyman.

V. Lemoine & Fils, Nancy, France—Catalogue and Price List for Spring, 1914. A very complete list of the specialties and novelties offered by this well-known firm.

Elm City Nursery Co., New Haven, Conn.—General Nursery Catalogue for 1914. A fine list of the good things in deciduous and evergreen material for ornamental planting.

J. K. Alexander, East Bridgewater, Mass.—Dahlia catalogue and Cultural Guide for 1914. A carefully arranged and tabulated catalogue, fully up-to-date in new varieties. Contains useful cultural information.

H. E. Meader, Dover, N. H.—"Do You Love Flowers? Look Within," is the motto under which H. E. Meader sends out his gladiolus list for spring 1914. It is a very tasty little catalogue and guide book for the gladiolus lover.

Jacs Smits & Co., Naarden, Holland—Wholesale Nursery Catalogue for season of 1914-1915. This is the "American Edition." A very useful publication and with tabular index of unique and handy form. A colored plate of Spiraea (Astilbe) Naarden is inserted, a beautiful reproduction of a beautiful plant.

Little Tree Farms, South Framingham, Mass.—Price List for Spring, 1914. This is the annual spring catalogue of the American Forestry Company, Boston. White Pine for forest planting is a big specialty with this company and anyone interested should send for this catalogue which quotes these and other coniferous trees in any quantity.

Chester Jay Hunt, Montclair, N. J.—The Blue Book of Bulbs, 1914. This is a very "swell" little annual publication, 100 pages of carefully elaborated descriptive notes of spring flowering bulbs, much attention being given to true color definitions. The lists of 1914 introductions in Cottage, Darwin and Breeder tulips and in narcissi are of especial interest and value.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

Professor A. H. Nehrling, head of the department of floriculture at the Massachusetts Agricultural College, has inaugurated there one of his many new ideas, which he has brought with him from the breezy west; namely a weekly informal round table discussion by the seniors in floriculture. Different points which cannot be brought out in the classroom are discussed, such as a review of the trade papers, and other phases of floriculture. In addition, each senior selects a particular phase of floriculture in which he is most interested, and after several months of original investigation, he discusses it at the seminar, and finally writes a thesis. The subjects are—The Nomenclature and Classification of Roses, by S. L. Freedman; Herbaceous Perennials, by A. S. Thurston; The non-commercial Phases of Floriculture, by Miss A. J. Strange; The Commercial Side of Floriculture, by G. A. Reid; The Retail Side of Floriculture, by H. W. Levine. A few perhaps of the best at some future time, will be published in the trade papers.

Professor James S. Pray, chairman of the school of landscape architecture, Harvard University, will address the landscape students in the near future, on some phase of civic design.

WM. H. HATFIELD.

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J. OLIVER JOHNSON, 1661 No. Leavitt St., Wicker Pk., Sta. CHICAGO, ILL.

Braslan Seed Growers Company

Large wholesale growers of ONION, LETTUCE, CARROT, RADISH, PARSNIP, PARSLEY, CELERY, ENDIVE, LEEK, SALSIFY and SWEET PEAS.

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Write for 1914 Contracting Prices

S. S. SKIDELSKY & CO.

BULBS, PLANTS and SEEDS

1218 Betz Bldg., Philadelphia

Catalogue on application

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS 82 Dey St., NEW YORK and ORANGE, CONN.

"SEEDS WITH A LINEAGE"

Seeds with a generation of finest flowers and vegetables back of them—carefully selected—really tested.

Write today for Catalog.

CARTER'S TESTED SEEDS, Inc.

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PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

PAEONIES

$10.00 per 100

In five colors

WHITE CRIMSON ROSE PINK CARMINE

TUBEROSES

Dwarf Double Pearl. Extra large size

$10.00 per 1000

Gladioli and Tigridias

All the leading varieties. Prices on application

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. (T-35) NEW YORK, N. Y.

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FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.

STAMFORD, CONN.

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO.

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WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

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Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

SEND **ALBANY** ORDERS TO
FRED. A. DANKER
40 Maiden Lane, Albany, N. Y.
Member Florists' Telegraph Delivery.

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

NEW FLOWER STORES.

Muncy, Pa.—Stanley Bryfogle, Main street.

Portland, Ore.—F. S. Spalding, 249 Alder street.

Brooklyn, N. Y.—James Conlon, 46 Smith street.

St. Louis, Mo.—Edward G. Sedivec, 2610 Cherokee street.

Albert Lea, Minn.—Mrs. Margaret Ryan, West Clark street.

White Plains, N. Y.—Victor Kosubow and A. Krapish, 123 Main street.

STEAMER DEPARTURES

Allen

Numidian, Boston-Glasgow....May 13

American

St. Paul, N. Y.-Southampton..May 8
St. Louis, N. Y.-Southampton..May 15

Atlantic Transport

Minnewaska, N. Y.-London...May 9
Minnehaha, N. Y.-London.. ..May 16

Cunard

Franconia, Boston-Liverpool..May 12
Campania, N. Y.-Liverpool....May 5
Ivernia, N. Y.-Mediterran'n...May 7

French

France, N. Y.-Havre.... .....May 6
Caroline, N. Y.-Havre.....May 9
Chicago, N. Y.-Havre.....May 9
La Lorraine, N Y.-Havre....May 13

Hamburg-American

Rhaetia, Boston-Hamburg....May 9
Ksn. Aug. Vic., N. Y.-Hamb'g..May 7
Pres. Grant, N. Y.-Hamburg..May 9

Holland-America

New Am'dam, N. Y.-Rot'dam.May 5
Noordam, N. Y.-Rotterdam...May 12

North German Lloyd

Kr. Wilhelm II, N. Y.-Bremen.May 5
Gr. Kurfuerst, N. Y.-Bremen..May 7
Seydlitz, N. Y.-Bremen.....May 9
K'n'g Albert, N. Y.-Mediter'n.May 9

Red Star

Kroonland, N. Y.-Antwerp...May 9
Finland, N. Y.-Antwerp.....May 16

White Star

WHITE STAR
Baltic, N. Y.-Liverpool.....May 7
Olympic, N. Y.-Southampton..May 9
Cymric, Boston-Liverpool....May 12
Celtic, N. Y.-Liverpool.....May 14
Cretic, Boston-Mediterranean.May 16

VISITORS' REGISTER.

New York—U. J. Virgin, New Orleans, La.

Boston—Robt. Shoch, representing Rice Co., Phila., Pa.

Cincinnati, O. — Bernhard W. Schwartz of Lehmaier, Schwartz & Co., New York.

Chicago—Wm. Metzger, Wenona, Ill.; Julius Dilloff, representing Schloss Bros., New York; Walter Mott, representing Benj. Hammond, Beacon, N. Y.; A. C. Rott, Joliet, Ill.; Mr. Kleckner and Son, Battle Creek, Mich.; Sam'l Graff, with the Art Floral Co., Columbus, O.; John A. Evans, Richmond, Ind.; H. B. Rine, Humboldt, Ia.; A. Priggooris of the Alpha Floral Co., Lansing, Mich.; Chas. J. Pass, North Platte, Neb.; Henry J. Weber, Joliet, Ill.; Peter Breit, Phair, Tex.

ALEX. McCONNELL
611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

GEORGE M. STUMPP
761 Fifth Ave., Cor. E. 58th St.
NEW YORK CITY

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

NEW YORK CITY
AND VICINITY
A. WARENDORFF
Artistic Work. Reasonable Prices. Prompt Delivery of Steamer Orders.
1193 Broadway, My Only Store

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
Palmer's
304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

THE FLORIST SUPPLY HOUSE OF AMERICA

KEEP USING THE PENNY POT COVERS

If your plants require dressing and trimming at Easter time, wouldn't your plants require the same attention and finish ***at all times?*** Your plant will look better and please your customer when dressed in one of our Penny Pot Covers. **All the good shades. Write us now for them.**

See pages 675-679 for Script Letters and Special Cycas Announcement.

H. BAYERSDORFER & CO., 1129 Arch Street, PHILADELPHIA, PA.

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston



WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

GEORGE H. COOKE
FLORIST
Connecticut Ave. and L St., N. W.
WASHINGTON, D. C.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

New York. Washington, D. C.
J. H. SMALL & SONS
FLORISTS
NEW YORK, 1153 Broadway, WASHINGTON, D. C. Cor. 15th & H. Sts.
AND WALDORF-ASTORIA.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—Fred A. Danker, 40 Maiden Lane.
Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y. The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and I St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

La Crosse, Wis.—La Crosse Floral Company, increasing capital stock from $35,000 to $50,000.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for [illegible] in this section from the
LEADING FLORISTS OF THE NORTHWEST

WASHINGTON NOTES.

During the recent convention of the Daughters of the American Revolution, Gude Bros. Company conducted a flower booth in the society's handsome building on Seventeenth Street, Northwest. This firm reports that considerable business was done here especially in gardenias, orchids, American Beauty roses and other high-priced stock. The booth was in charge of Fred Calloway.

An effort is to be made with a view to eliminating vendors of flowers from the streets of Washington. It has been reported that but few pedlars' licenses have been taken out this year and that the police will get busy rounding up those who do business without such permission. Fred H. Kramer states that he will take an active part in the crusade to clean these men up. Nearly all the florists are complaining of this competition especially those who have had the experience of having these men stand almost in front of their display windows and offer their wares to people who would otherwise patronize the stores. This matter has been before the florists for some time although but little has been done to relieve this condition.

A large number of the important society events have been postponed owing to the Mexican unpleasantness and this has been felt to no little extent in the stores. Army, Navy and State Department officials find it impossible to attend or to act as host at any of these functions due to present conditions. Should mediation prove unsuccessful, the flower business in this city will fall off to even a greater extent for a large number of officers of both the land and sea forces will be ordered from Washington to the front. Little can be expected from the coming White House wedding for this is to be a family affair. This will cause another disappointment to the trade unless things change a great deal in the course of a few days.

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

CHICAGO NOTES.

A largely increasing demand for perennials is reported.

Philip J. Foley, of the Foley Greenhouse Manufacturing Co., is serving his city as juryman.

The John C. Moninger Co. has opened an eastern office in the Marbridge Bldg., Broadway and 34th street, New York.

A. L. Vaughan & Co. have just taken out a new five-years' lease at their present location, which settles the report that the building is to be torn down.

The lack of blooming pansy plants is noticeable this spring, large numbers having been winter killed, leaving the market with a very scanty supply of these favorites.

Harry Rowe is moving from the corner of Washington street and Wabash avenue to room 205 Atlas block. The building which he is leaving is about to be torn down and Mr. Rowe expects to occupy a store in the handsome new structure to be erected.

The McNeff-Swenson Co. are moving into the Insurance Exchange building where they will have more room. Their artistic folders are proving successful business catchers to the florists using them. But one firm in a town is allowed to handle them.

Mother's Day is again a vexation to the wholesalers who are now receiving inquiries for an impossible number of carnations. Last year many orders were diverted to roses and other flowers. Some of the large calendars are giving the wrong date for Mothers' Day, which is the second Sunday in May.

The boiler test at the Moninger Greenhouse Co.'s factory was in every way a success. Among the florists from out of the city were L. M. Mason, Streator, Ill.; J. F. Thornton of the Hill Floral Co., Streator, Ill.; John Frisz, Vincennes, Ind., and Andrew Peterson, Hoopestown, Ill. The testing of the capacity of the boiler was very satisfactory and showed an increase of 30 per cent. above the rating. Lectures were given daily by Mr. McIntire, practical boiler engineer of New York.

THE RETAILERS' FRIEND.

The best friend the retailer has is the customer of his own community.

As much as the retailer is inclined at times to cuss the people of his community for the various digressions and sins of omission and commission it still behooves him to look on them and treat them as the best business friends he has, says Trade Exhibit.

That means taking the people into your confidence. It means playing square with them in every particular. It means education instead of deceit. It means co-operation instead of antagonism. It means giving them the best deal you can instead of getting out of them all they will stand.

The express companies give a shining example. For years the express companies maintained expensive lobbies at the seats of government to forestall any laws that would hurt their business. They ignored their best friends, their patrons. They adopted a policy of secrecy instead of education and frank publicity. They dammed up the stream of public sentiment until it broke out and swept

A CORDIAL INVITATION
Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.
TRANSFER ORDERS
by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.
Thos. F. Galvin, Inc.
Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO
And Neighboring Towns
Are Thoroughly Covered by
SCHILLER, THE FLORIST
(Member Florists Telegraph Delivery).
Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
GEORGE ASMUS, Mgr.
2221-2223 W. Madison St., CHICAGO.
'Phone West 822

REUTER'S
Members Florists Telegraph Delivery
STORES IN
New London and Norwich, Conn. and Westerly, R. I.
We cover the territory between
New Haven and Providence

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

STAMFORD, CONN.
"Quality Shop"
Will take care of all your orders for designs or cut flowers.
Stamford Seed & Nursery Co., 43 Atlantic St.

F. R. PIERSON CO.
FLORISTS AND PLANTSMEN
TARRYTOWN ON HUDSON, - N. Y.
Member of Florists' Telegraph Delivery

THE FLORIST SUPPLY HOUSE OF AMERICA

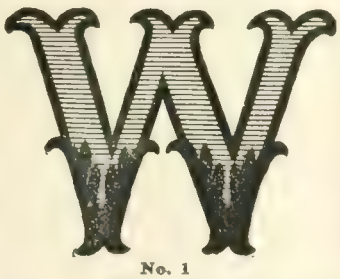
If it's Good Gold or Purple Paper Letters you want at a small price, then order from us

Only one Quality and that the best

SCRIPT LETTERS



Gold Script, Plain Purple Script, Purple Velour Script, $2.50 per 100 Words
Prices are for lots of 1000 Assorted Letters



No. 1

No. 1.
Gold Paper Letters, $3.50 per 1000.
Purple Paper Letters, $4.50 per 1000.
Mother of Pearl Letters, $4.00 per 1000.



No. 2

No. 2.
Gold Letters, $5.50 per 1000.



No. 4

No. 4.
Gold Paper Letters, $2.50 per 1000.
Purple Paper Letters, $3.50 per 1000.

See pages 673-679 for Pot Covers and Special Cycas Announcement.

H. BAYERSDORFER & CO., 1129 Arch Street PHILADELPHIA, PA.

them away. The telephone and telegraph companies, for instance, have seen the signs, and are taking an absolutely different course.

The retailers should follow the example of the telephone and telegraph companies and other public service corporations in this line; they should take the public into their confidence, state the facts as they are, get public sentiment for instead of against them, and then all this talk of eliminating the middleman will be as a passing breeze to the mountain.

Cut out the mystery, don't let people think you are making a hundred per cent profit when you really only make ten. Use tact and common sense, of course, but you have nothing to lose and everything to gain by taking the public into your confidence, by being frank and open and honest.—*The Southern Merchant.*

Milwaukee, Wis. — The Kummer Floral Co. had their first anniversary and formal opening of their new store at 1261-65 Hopkins street on Sunday, April 26. Connected with the store are two greenhouses and a propagating house and it is evident that this young firm is on the direct road to prosperity.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

PHILADELPHIA NOTES.

Frank M. Ross, one of the most enterprising of our retailers, reports better and bigger business every month this season. He devotes his time to hustling and leaves the Black Hand methods of killing competition to those who have little else to do.

L. W. C. Tuthill of New York City will be the speaker at the Florists' Club meeting May 5, and will give the growers all the latest wrinkles in how to build better, and increase their efficiency and economy in flower and plant production, so as to be able to make enough to retire on at a reasonable old age—say about 50—not to Oslerize it too much.

George H. Cooke was a recent visitor, having come through from Washington to Philadephia to procure supplies for a big event which a New York City family was holding in the National Capital. It was the ex-Senator's birthday, but the good lady said she could not celebrate in Manhattan, as she much preferred the more artistic way the floral decorations were handled by Cooke, in Washington. Hard on New York! Pennock Bros. had a big event in Washington last Saturday—a wedding. We asked if they had been cutting prices. No; got more than the Washington fellows asked. Hard on Washington! Next.

Commendation.

Mr. James Bray, San Jose, Cal., has written a letter of commendation, strongly complimenting the staff of HORTICULTURE all along the line and commenting especially on the high-grade of the horticultural articles—which he thinks away ahead of anything attempted so far in trade journalism. He also joins emphatically in the opinion of a recent article by our Philadelphia correspondent that the gardeners are but half paid, that the men rich enough to have a gardener should be educated up to the point of starting at the minimum of $100. Respectfully referred to M. C. Ebel who called the P. C. an outsider after 38 years active service. How long has M. C. E. been in the business?

THE EMPLOYEES' RESOLVE.

How will this do?

I, Ignatius, being of sound mind (of korse) do hereby and heron declare that during this Year, I will:

1st. Smile when the stenographer comes in.

2nd. Smile and look busy when the boss comes in.

3rd. Smile and get busy when a customer comes in.

4th. That I will serve the public so well that when a customer goes out he will say au revoir, but not good bye.

5th. That I will try to convince every last one of you that we want to do bizness with you and that you will save time, money and nerve force by doing bizness with us.

6th. That I will prove all this to you with your kind permission.—*The Southern Merchant.*

Florist's Refrigerators

Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

BEAUTIES

$1.00 to $3.00 per dozen

Beauties are plentiful and of splendid quality. Mostly specials, stems 36 inches and over and they are the best for size and color,

GREEN LEUCOTHOES, LONG, 1000, $6.50
GREEN LEUCOTHOES, 12 IN. LONG, 1000, $3.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., **PHILADELPHIA**

Mention HORTICULTURE when writing.

Order Your Memorial Day Flowers, Plants and Supplies Early.

Get Your Young Stock Now, to Grow On for Next Season.

All Choice Plants, Seeds and Roots may be procured from the Advertisers in this Paper.

THE BEST LETTERS

FOR FLORIST'S USE — R — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

Order direct or buy from your local supply dealer. Insist on having the

BOSTON

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI April 27			CHICAGO April 27			BUFFALO April 27			PITTSBURG April 20		
Am. Beauty, Special	25.00	to	30.00	25.00	to	35.00	.....	to	25.00	20.00	to	30.00
" " Fancy and Extra	20.00	to	25.00	15.00	to	25.00	15.00	to	20.00	12.00	to	15.00
" " No. 1	10.00	to	15.00	12.00	to	20.00	8.00	to	15.00	6.00	to	10.00
Killarney, Extra	5.00	to	8.00	6.00	to	8.00	6.00	to	8.00	6.00	to	10.00
" Ordinary	2.00	to	4.00	2.00	to	5.00	3.00	to	5.00	2.00	to	4.00
Richmond, Hillingdon, Extra	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	6.00	to	10.00
" " Ordinary	3.00	to	6.00	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00
Maryland,,Ward,Taft,Sunburst, Ex.	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	6.00	to	10.00
" " " Ordinary	4.00	to	6.00	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00
Russell, Shawyer	.....	to	.....	.....	to	.....	. .	to	... ..	.....	to	.....
Carnations, Fancy	2.00	to	3.00	2.00	to	3.00	2.00	to	2.50	.....	to	3.00
" Ordinary	1.50	to	2.00	1.50	to	2.00	1.50	to	2.00	1.00	to	2.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	40.00	to	50.00	60.00	to	75.00
Lilies, Longiflorum	8.00	to	12.00	5.00	to	8.00	8.00	to	10.00	6.00	to	12.00
Callas	6.00	to	8.00	5.00	to	8.00	8.00	to	10.00	.. ...	to	8.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Wallflower	.....	to	.. ...	..	to	.....	.....	to	.....	1.00	to	2.00
Snapdragon	4.00	to	8.00	8.00	to	12.00	4.00	to	7.00	6.00	to	8.00
Daffodils	1.00	to	2.00	2.00	to	3.00	1.00	to	2.00	1.00	to	3.00
Tulips	2.00	to	3.00	2.00	to	4.00	1.00	to	2.00	1.00	to	3.00
Violets	.....	to	... .	.50	to	.75	.50	to	.60	.50	to	.75
Pansies	.75	to	1.00	1.00	to	1.25	.30	to	.50	.50	to	1.00
Mignonette	4.00	to	6.00	5.00	to	8.00	2.00	to	4.00	4.00	to	6.00
Daises, white and yellow	1.00	to	1.50	1.00	to	1.25	1.00	to	1.50	2.00	to	4.00
Sweet Peas	.50	to	1.00	.50	to	1.00	.50	to	1.00	.50	to	1.25
Lilacs, per bunch	.. ...	to	.....	.25	to	1.00	.....	to	.. ...	.....	to	.....
Gardenias	25.00	to	40.00	25.00	to	30.00	.....	to	.....	20.00	to	30.00
Adiantum	1.00	to	1.50	1.00	to	1.25	.50	to	1.25	.....	to	1.25
Smilax	.....	to	15.00	12.00	to	15.00	.....	to	15.00	.....	to	20.00
Asparagus Plumosus, Strings (100)	40.00	to	50.00	40.00	to	60.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	25.00	to	50.00	35.00	to	50.00	35.00	to	50.00	25.00	to	50.00

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Per Pair 85c by Mail Postpaid

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P M QUALITY

Flower Market Reports

BOSTON While the situation still remains very unsatisfactory as a general proposition there are indications of a little improvement which, it is hoped, is the forerunner of a better state or affairs. Carnations are the first to feel the favoring breeze and have made a creditable advance in regular rates. This is due as much to the shortening up of the product as to any other cause; if a normal demand should come there would be a shortage. Roses are still very plentiful and quality excellent but prices are low. Lilies are sold for whatever they will bring—which is exceedingly low, less than the price of carnations as a rule but there are a few fancy blooms that bring a good figure in small orders. Cattleyas are up to a strong position but gardenias seem badly demoralized. Good sweet peas sell very well. Violets are about over, only a few Lady Campbells being in evidence.

BUFFALO Quietness has prevailed throughout the whole past week; in fact, stock had to be forced upon the buyers, as everything was too plentiful for the wholesalers' comfort. There is a heavy supply of carnations, also roses, the largest portion being white. Orchid had no outlet. There are plenty of good sweet peas, Beauties of all grades, lilies and snapdragons with very little sale. Violets continue good though sales do not warrant large shipments; lily of the valley is only in normal supply, but there are fine pansies, daisies, swainsona, mignonette, wallflowers and other stock which the merchant has to select from. A good quantity of tulips, daffodils and other bulbous stock helped to fill the market.

CHICAGO Unless something unforseen comes to use up the roses or to stop their present rate of production a glut seems likely to occur. The amount now coming into this market is larger than can be handled under ordinary circumstances and the price has declined perceptibly. Carnations, on the contrary, are being used up daily and the orders now in for Mothers' Day are many times the number likely to be available. There are plenty of American Beauties, and in all lengths and of excellent quality. Bulbous stock is thinning out. Easter lilies and Callas are far in advance of demand. Lily of the valley is coming in sufficient supply for the weddings and corsage bouquets, which seem a part of spring. Spanish iris and snapdragons are selling fairly well. Sweet peas have dropped to about one-half the price of a month ago and then do not move fast. Wild ferns are the only scarce article in the market.

CINCINNATI This market is in the throes of oversupply and consequent low prices. As far as the demand itself is concerned there is no possible ground for complaint for there is an active call for flowers. It is the superabundance of flowers that is causing the present condition. The retailers who have any kind of business at all are having a chance to reap a good harvest while it lasts. The crowding that began with the heavy receipts of lilies immediately after Easter is continuing because of the steady heavy production of this flower and a steady increase in the size of the cut of other flowers. Roses are more than able to take care of all calls for them. The American Beauty cut is also proportionately large. Out door bulbous stock is plentiful and includes many blooms of quality. Callas continue in a good supply. Carnations are, in comparison to other flowers, selling up better than any of them, because the cut is more or less limited

NEW YORK Things are progressing quite slowly in the direction of better conditions. The heavy production continues to encumber the market and the influx of lilacs and bulbous flowers from southern sources, where they are

(Continued on page [illegible])

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON April 30			ST. LOUIS April 27			PHILA. April 27		
Roses									
Am. Beauty, Special	20.00	to	25.00	20.00	to	25.00	15.00	to	17.50
" " Fancy and Extra	10.00	to	20.00	15.00	to	18.00	8.00	to	10.00
" " No. 1	4.00	to	8.00	8.00	to	10.00	.....	to	5.00
Killarney, Extra	4.00	to	5.00	5.00	to	6.00	.....	to	6.00
" Ordinary	.50	to	2.00	2.00	to	3.00	2.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	5.00	5.00	to	6.00	6.00	to	8.00
" " Ordinary	.50	to	2.00	2.00	to	3.00	3.00	to	5.00
Maryland, Ward, Taft, Sunburst, Extra	4.00	to	6.00	5.00	to	6.00	5.00	to	6.00
" " " Ordinary	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
Russell, Shawyer	2.00	to	10.00	.....	to	.....	5.00	to	12.00
Carnations, Fancy	2.00	to	3.00	1.50	to	2.00	2.50	to	3.00
" Ordinary	1.00	to	1.50	.75	to	1.00	1.00	to	1.50
Cattleyas	35.00	to	50.00	40.00	to	50.00	40.00	to	50.00
Lilies, Longiflorum	3.00	to	5.00	6.00	to	8.00	6.00	to	10.00
Callas	4.00	to	6.00	6.00	to	8.00	.....	to	1.50
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	2.00	to	3.50
Wallflower	1.00	to	2.00	.....	to	.....	1.00	to	2.00
Snapdragon	2.00	to	6.00	3.00	to	4.00	3.00	to	5.00
Daffodils	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
Tulips	1.00	to	2.00	2.00	to	3.00	.....	to	.....
Violets	.25	to	.40	.20	to	.35	.....	to	.....
Pansies	.25	to	.50	1.00	to	2.00	.25	to	.50
Mignonette	2.00	to	4.00	4.00	to	5.00	.....	to	.....
Dasies, white and yellow	.50	to	1.00	1.00	to	2.00	.50	to	1.00
Sweet Peas	.40	to	.75	.20	to	.35	.50	to	1.00
Lilacs, per bunch	.....	to	.....	.10	to	.25	.....	to	.....
Gardenias	6.00	to	12.00	.....	to	...	4.00	to	12.00
Adiantum	75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	12.00	to	15.00	.....	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	25.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	25.00	to	35.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Apr. 25 1914	First Half of Week beginning Apr. 27 1914
American Beauty, Special	15.00 to 20.00	15.00 to 25.00
" " Fancy and Extra	8.00 to 10.00	10.00 to 15.00
" " No. 1	2.00 to 8.00	5.00 to 10.00
Killarney, Extra	3.00 to 4.00	4.00 to 6.00
" Ordinary	.50 to 1.00	.50 to 4.00
Richmond, Hillingdon, Extra	3.00 to 6.00	2.00 to 6.00
" Ordinary	.50 to 1.00	.50 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	3.00 to 6.00	2.00 to 6.00
" " " " Ordinary	.50 to 2.00	.50 to 2.00
Russell, Shawyer	3.00 to 8.00	4.00 to 8.00
Carnations, Fancy Grade	1.00 to 1.50	2.00 to 2.50
" Ordinary	.50 to 1.00	1.00 to 1.50

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Flower Market Reports

(*Continued from page 677*)

blooming outdoors has a depressing effect on any effort to bring conditions back to normal after the post-Easter dilemma. Two things are in better shape as a starter, carnations and cattleyas. In the case of each it is the result of a receding crop and not entirely due to any better demand. Lilies are still at the bottom of the ladder and they have plenty of company, among which may be classed roses of all varieties in the medium and lower grades. Sweet peas are doing satisfactorily if of standard quality but there are lots of the other kind and these fare badly. Gardenias are cheap and lack the element of popularity which they enjoyed in the past. Altogether the situation is very unsatisfactory from the wholesalers' angle, but the retailer has a chance to make good money provided he can scare up the buyers.

PHILADELPHIA Excessive supplies still rule, and we regret to be unable to report any improvement on general conditions. Roses, carnations, lilies and snapdragons are especially abundant. Orchids and gardenias sell fairly well as do also sweet peas. There is not such a powerful overplus in these. Greenhouse-grown gladioli of the popular varieties like America, Augusta, Brenchleyensis, etc., are coming in sparingly and are cleaning up nicely at good figures. Spanish iris are one of the few things that meet with ready sale at living prices. Lily of the valley is still a fair proposition although the supplies increased towards the end of the past week. There is a fair demand for daisies, but there are far too many of them. Outdoor narcissi liye poeticus, Langtry and Barri arrived in big lots, but with little demand—in many cases not enough to pay the expressage. Smilax strings are scarce—as is usual about this time. We do not seem to have been able to regulate that defect here yet, and P. Welch can still smile at us and point with pride to his superior generalship for the Boston market. Asparagus plumosus is much more plentiful than it was a few weeks ago.

WASHINGTON There is an unusually heavy supply of flowers in the market at the present time and it is said that not in many years has the glut been so heavy. Prices are asked but the dealers are often glad to take just about what is offered to them. While some American Beauty roses are bringing a fair price, the average run is moving at less than $3 per dozen while in quantity lots the price is almost that much per hundred. No quotations are being made on the average run of roses and these are being sold almost without count, but there is some little demand for good quality Richmond, Radiance and Killarney roses at a fair price. Cattleyas form the only scarcity and there are not enough of these to fill all demands with the result that the price has gone up. Carnations can be had at as low as $7.50 per thousand and the bottom has dropped out of the sweet pea market, this flower bringing as low as $2 per thousand. Violets are well off the market although they are being offered on the streets as usual.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Apr. 25 1914	First Half of Week beginning Apr. 27 1914
Cattleyas	20.00 to 35.00	15.00 to 50.00
Lilies, Longiflorum	1.00 to 3.00	1.00 to 3.00
Callas	3.00 to 6.00	3.00 to 6.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Wallflower	1.00 to 2.00	1.00 to 2.00
Snapdragon	1.00 to 4.00	2.00 to 3.00
Daffodils	1.00 to 2.00	1.50 to 2.00
Tulips	1.00 to 2.00	1.50 to 2.00
Violets	.25 to .50	.15 to .25
Pansies	.25 to .50	.25 to .50
Mignonette	.50 to 4.00	2.00 to 4.00
Daises, white and yellow	.50 to 1.00	1.00 to 1.50
Sweet Peas (per 100 bunches)	6.00 to 8.00	4.00 to 8.00
Lilacs (per bunch) Southern	.. .. to .33	..... to .33
Gardenias	2.00 to 15.00	2.00 to 16.00
Adiantum	.50 to 1.00	.50 to .75
Smilax	16.00 to 25.00	15.00 to 25.00
Asparagus Plumosus, strings (per 100)	20.00 to 50.00	35.00 to 50.00
" " & Sprcn (100 bunches)	15.00 to 50.00	15.00 to 35.00

We were greatly surprised when John McKenzie, the well known plant and flower grower of North Cambridge, Mass., handed in the advertisement which appears in this issue offering his establishment for sale, for it is no secret that John has made money there and the place is exceptionally well located and in good order. But flower-growing is not big enough now for his ambitions and his successor there will get a rare bargain in consequence.

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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION PLANTS — From 2¼-in. pots, 1000 Commodore, $50.00. FRANK P. PUTNAM, P. O. Box 12, Lowell, Mass.

CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Elmer D. Smith & Co., Adrian, Mich.
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Wood Bros., Fishkill, N. Y.
Chrysanthemums Rooted Cuttings.
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CHRYSANTHEMUM ROOTED CUTTINGS—Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c., $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

SINGLE CHRYSANTHEMUMS

from 2¼-in. pots.	100
Yellow Mensa	$10.00
Mensa. Finest White	5.00
Celia. Lemon Yellow	5.00
Cha. Kingsley. Fine Yellow	5.00
Mary Pope. Large Pink	5.00
Hilda Wells. Tuscan Red	4.00
Mary Richardson. Salmon	4.00
Mrs. Heneage. Yellow Anemone	4.00
Pompons. Lula, white; Souvenir d'Or, orange and bronze	3.00

FRANK P. PUTNAM,
P. O. Box 12, Lowell, Mass.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

200,000 GIANT FLOWERING CYCLAMEN.

For the last 16 years we have selected three-fourths of our seed-bearing cyclamen stock before Xmas. to assure early blooming plants, and claim the finest commercial strain in this country; no fizzle of many so-called English varieties. Our aim is strong growers that don't have to be petted to be grown into a choice salable plant—a well built, five-petaled flower (many of them at one time), with well marked foliage; every plant an ideal, a prize winner. Received first prize at the Cleveland show and first and second at Toledo, early November, when blooming cyclamen were scarce.

STRONG AUGUST SOWN SEEDLINGS, once transplanted, $3.50 per 100; $30.00 per 1000. Cash with order. Cultural directions with all orders. C. WINTERICH, Cyclamen Specialist, Defiance, O.

CYCLAMENS from 5 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

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A. SCHULTHEIS,
College Point, N. Y.
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DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

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DAHLIAS—Continued

Dahlias 2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—best cut-flower varieties and novelties. Send your list of wants to the largest Dahlia grower in the world. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Field clumps, divided, good sound stock; assortment of 10 commercial kinds for cut-flowers, equal amount of each, labeled true to name, $1.50 per 100, $12.00 per 1000; in 20 standard sorts, $2.00 per 100, $12.00 per 1000; mixture of White and Light Pink for Florists' use, $1.25 per 100, $10.00 per 1000; mixture of all colors and types, $1.00 per 100, $8.00 per 1000. We guarantee satisfaction—25 at 100 and 250 at 1000 rate. Trade List of Dahlias on Application. MANNETTO HILL NURSERIES, W. A. Finger, Prop., Hicksville, L. I., N. Y.

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Geraniums—S. A. Nutt, extra strong, branched, 3-in., $3.00 per 100; 4-in., branched in bud and bloom, $5.00 per 100. Cash with order, please. J. M. & C. L. BACKUS, Groton, Tomp. Co., N. Y.

GLADIOLUS

Groff's mixed, light colors, 1-in., $5.00 per 1000. Groff's hybrids, mixed, all colors, 1-in., $5.00 per 1000. C. PEIRCE, Dighton, Mass.

Gladiolus Princeps.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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Everything in Hardy Perennials.
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IRRIGATION SPRINKLER

J. P. Campbell, Jacksonville, Fla.

IVY

German Ivy, 2 to $2^1/_2$ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

KENTIAS

Joseph Heacock Co., Wyncote, Pa.
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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Large Specimen Evergreen and Deciduous Trees.

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PANSY PLANTS

125,000 large, stocky (September transplanted), field-grown, blooming pansy plants; Henry Mette's strain, all salable stock, satisfaction guaranteed. $1.00 per 100, $10.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

500,000 field-grown Pansies in bud and bloom; grown from seed of my own raising and is the result of twenty years' careful breeding. Cash, please. LEONARD COUSINS, JR., Concord Jct., Mass.

PEONIES.

J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

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PHOENIX

Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

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SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

Salvias—Bonfire, strong, healthy plants, 2-in. pots, $2.00 per 100; 3-in. pots, $3.00 per 100. J. HENRY BARTRAM, Lansdowne, Pa.

SCOTCH HEATHER

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SLUG SHOT

Hammond's Paint & Slug Shot Works, Beacon, N. Y.

SNAPDRAGONS

G. S. Ramsburg, Somersworth, N. H.

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED

Arthur T. Boddington, New York City.
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VEGETABLE PLANTS

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

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For page see List of Advertisers.

Komada Bros., Philadelphia, Pa.
For page see List of Advertisers.

Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
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Welch Bros. Co., 226 Devonshire St.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
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Chicago

Peter Reinberg, 37 Randolph St.
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Chicago Carnation Co., 30 E. Randolph St.
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Poehlmann Bros. Co., Morton Grove, Ill.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
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H. E. Froment, 57 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 49 West 28th St., N. Y.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 37 & 39 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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B. S. Slinn, Jr., 55 and 57 West 26th St.

Philadelphia

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The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers In This Issue

FERTILIZER

Millwood Farm, Framingham, Mass.
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GREENHOUSE SHADING

E. A. Lippman, Morristown, N. J.
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PHLOX AND IRIS

Eastern Nurseries, Jamaica Plain, Mass.
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POCKET PRUNER

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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PROSPEROUS ESTABLISHMENT FOR SALE

John McKenzie, No. Cambridge, Mass.
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SCRIPT LETTERS—POT COVERS—CYCAS

H. Bayersdorfer & Co., Philadelphia, Pa.
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WHOLESALE FLORISTS

McAlpine & McDonald, Boston, Mass.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...
HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
Pearson Street
LONG ISLAND CITY, N. Y.
A. H. HEWS & CO., Inc.
Main Office and Factories
CAMBRIDGE, MASS.

GREENHOUSES BUILDING OR CONTEMPLATED.

Monson, Conn.—W. H. Pease, one house.

Jackson, Tenn. — Murray Sands, house, 26x70.

Bloomington, Ill.—Edward Hempstead, one house.

Morris, Ill.—Morris Floral Company, two rose houses.

Wellesley, Mass. — A. F. Capers, King house, 40x275.

St. Louis, Mo.—Otto Koenig, 6463 Florissant avenue, one house.

Moorehead, Minn.—W. R. Briggs, North Ninth street, one house.

NEWS NOTES.

Chester, Va.—Mrs. Fulmer, of Hookston, has leased the Colton greenhouse on Fifth street.

Bath, N. Y.—DeGroat & Stewart secured a tract of land here and will specialize in gladioli.

Farmington, Mass.—George Rice has purchased the greenhouses and other property of Norris F. Comley, Bedford street, Lexington.

Farmingdale, N. Y.—The Kramer Bros., have sold their property and florist business. They have not yet decided where to locate.

Taunton, Mass.—F. W. Willard has purchased the interest of his partner, W. Williams, and will continue the Taunton Greenhouses alone.

PEIRCE PAPER FLOWER POT

Replaces clay pot for transferring and delivery of plants without damage.

Under ordinary growing conditions will last two months or more in a greenhouse, making them available for growing many small plants.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies. 714 Chestnut Street, Philadelphia, Pa.

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE
NO ODOR NO POISON

Guaranteed under the Insecticide Act. 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and TradeExport

E. Allan Peirce is enthusiastic over his business in paper flower pots, for which he credits his advertising in HORTICULTURE with its full share, which includes substantial orders from as far from home as Seattle, Wash., and several Montana towns. He has been at times ten days behind hand in filling orders but now has caught up and can furnish any quantity desired at short notice. The set-off in the bottom of his pots, leaving a rim to raise the pot from the bench is especially appreciated by bedding plant growers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—Assistant to gardener. Man who understands bedding out. State wages desired. Address South Shore Greenhouses, Cohasset, Mass.

SITUATIONS WANTED

SITUATION WANTED by practical florist and gardener; good grower; capable of taking full charge of private or commercial place. Age 32; 15 years' experience. References as to ability and character. Address W. R., care of HORTICULTURE.

FOR SALE

Prosperous Establishment For Sale

One of the best commercial establishments around Boston. Ten houses fully stocked. Will turn over nice wholesale trade to buyer. Easy terms. Going into other business.

JOHN McKENZIE
North Cambridge, - - Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—A nice residence; 9 rooms; having all latest improvements—city water, steam heat, electricity; two wells; three greenhouses; across from a Cemetery. Very suitable for a florist. Address J. P. THEVE, Norwich, Conn.

MISCELLANEOUS

WANTED- 1000 'mums and 1200 carnations. Standard varieties. South Shore Greenhouses, Cohasset, Mass.

WANTED—To lease, with privilege to buy, retail greenhouses. State full particulars. Box 10, Annandale, New York.

STANDARD FLOWER POTS
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Aphine

The Insecticide that Kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel, wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

When writing to advertisers kindly mention HORTICULTURE.

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK

Any individual or firm who would be interested in handling manure from a dairy herd, dried to a 12% moisture basis, nothing of value lost from either the solid or liquid manure, the product analyzing as follows:

Nitrogen	3 to 3½%
Phosphoric Acid	.8 to 1%
Potassium Oxide	2.25 to 3%
Organic Matter	75 to 80%

Please communicate with

MILLWOOD FARM

FRAMINGHAM - - . MASS.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - BEVERLY, MASS.



Ram's Head Guano

100 lbs. $2.00

WM. ELLIOTT & SONS

42 Vesey St., New York

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N. Y.

BIG BLOOMS

and Strong Plants guaranteed. Mix DAVIDGE'S SPECIAL PHOSPHORUS with planting and potting soil. After roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

HUDSON CARBON CO., Ballston Spa, N. Y.

Greenhouse Shading

AFTER many years of experience in greenhouse work with Lord & Burnham Company, in the glazing and painting department, I am convinced that what is needed most is a good shading, and I am pleased to tell you that I have the real thing which you are all looking for.

My shading is beneficial to the painted wood, as it contains nothing but pure linseed oil; it is also beneficial to the glass. You will be surprised by the brilliancy left in the glass when the shading is removed. It is very easily applied by spray or a soft brush; I prefer the brush.

Made up in gallon cans. Colors; light green, blue and pure white. If you will give it a fair trial I am sure you will agree that it has proven its worth.

E. A. LIPPMAN, MORRISTOWN, N. J.

KING
Iron Frame Greenhouses

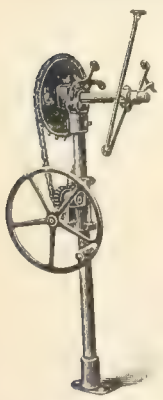
are the best growing houses and that's what you are looking for. The unanimous verdict of King Users is that the King is the best producer and the best value ever. Let us send you the names of King owners near you.

JUST ASK THEM

KING CONSTRUCTION CO.

28 King's Road North Tonawanda, N. Y.

All the Sunlight All Day Houses



You know the importance of having proper greenhouse fittings, and a reliable ventilating equipment in your greenhouse.

We manufacture these articles in such a manner that we feel perfectly safe in guaranteeing our material in every possible manner.

It will pay you to investigate. Write us today for catalog, prices, etc.

ADVANCE CO.
Richmond, - Ind.

MASTICA



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

Those Who Use
THE BARRIE FORCING FRAME
Are Getting Rhubarb Now



These frames placed over rhubarb give a nice early cutting before the regular crop, without injury to the plants.

This is only one of the many uses of the Barrie Forcing Frame. They work for the gardener nine months out of the twelve.

GEORGE N. BARRIE, Brookline, Mass.

IF YOU ONLY KNEW what a good eave the **METROPOLITAN PATENTED** is, you would use no other. It is made of cast iron and will not rust. That part of your greenhouse which in other constructions is the weakest becomes the strongest. Not this alone, it is ice-clearing and carries all the water of condensation from the inside, and it is so constructed that almost the entire end of the bar is exposed to the air, thereby preventing decay. Only one screw, about two inches from the end, is all that is necessary to secure the bars. For side stationary glass, wood headers are absolutely unnecessary, thereby causing no shade. Zinc glass stops are not necessary—the eave is made with a lug to prevent the glass from slipping. Let your next house be built with a **Metropolitan Patented Iron Wall Construction.** You will never regret it. Our price and service are right.



METROPOLITAN MATERIAL CO.
Patented Greenhouses—Heating Engineers
Hotbed Sash, Glass, etc.
1392-1414 Metropolitan Ave., BROOKLYN, N. Y.

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in Greater New York and can supply any quantity from **a box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.



PATENTS
Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

IT'S THE REPEAT ORDERS THAT COUNT

ALONG last summer we wrote to our Chicago office, asking if there was anything of particular interest about the orders they had recently been booking.

The reply was so to the point that we will now hand it on to you.

"The most interesting order we have received this month is for three houses for Walter B. Davis Company, at Aurora, Ill.

"They will be 64 feet wide and 325 feet long. The eave line is 10 feet high and the rafters spaced about 11 feet to centers. They will be duplicates of the iron frame house we erected for Mr. Davis last year.



On the three houses 7,580 lbs. or 3¾ tons of putty were used on the 18 miles of bars—36 miles of glass held in place by 300,000 glazing brads—239 gallons of white paint or pretty close to a ton—90,600 screws, which, if placed end to end, would reach considerably over a mile.

"A repeat order like this, we believe, says more all by itself than any amount of anvil pounding we can do regarding the merits of our greenhouses."

These Davis houses were completed some time ago. Mr Davis's opinion is given in that four page ad. in the *Exchange and Review* of January 31st, 1914.

Lord and Burnham Company

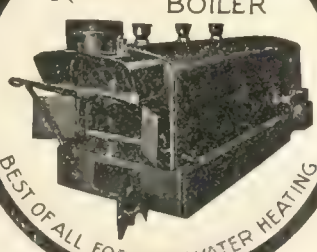
SALES OFFICES:

NEW YORK 42nd Street Bldg. | BOSTON Tremont Bldg. | PHILADELPHIA Franklin Bank Bldg. | CHICAGO Rookery Bldg. | ROCHESTER Granite Bldg. | CLEVELAND Swetland Bldg.

TORONTO, CANADA, 12 Queen St., E.

FACTORIES: Irvington, N. Y. Des Plaines, Ill.

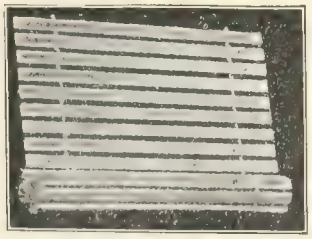
THE KROESCHELL GREEN HOUSE BOILER



BEST OF ALL FOR HOT WATER HEATING

Kroeschell Bros. Co.

466 W. Erie Street CHICAGO



THE ORIGINAL MAKER OF

GREENHOUSE AND VERANDA SHADING

Used all over the country by Commercial, Public and Private places. These shades can be rolled on the glass or raised 10 inches from glass. I can guarantee they will last 15 years or more. Will call at your place on request and bring samples and explain how it works.

W. H. DUGAN

118 Winyah Ave. Tel 2733 New Rochelle, N. Y.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

Greenhouse Materials FURNISHED AND ERECTED

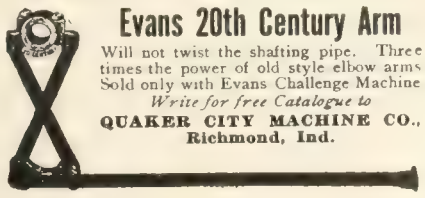
IRON or WOOD SASH BARS

In all lengths up to 32 feet.

Milled to any detail furnished or will furnish details and cut materials ready for erection.

Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street

JERSEY CITY, N. J.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms Sold only with Evans Challenge Machine

Write for free Catalogue to

QUAKER CITY MACHINE CO., Richmond, Ind.

FOLEY

Builds Good Greenhouses

TRY HIM.

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street

CHICAGO, Ill.

THE GREENHOUSE *with the* COBWEBBY FRAME

WHERE in all nature's handiwork is there a bit of building, so airy and almost invisible in its structural lines, as a cob web? Or one that is anything like as strong in proportion?

The lesson in building that we learn from these wonderful nature architects and builders is, that strength is not a question of how heavy you build but what you build of, and how you use your building materials.

In our first designing of the U-Bar house, we took the spider web as a basis.

First we looked about for a way to reduce the size of the necessary structural members and also do away entirely with others.

This meant we must have a frame of a strength never before produced.

The U-Bar was the answer. It made possible the combining of the roof bar and rafter in one; while still keeping the frame down to a cobwebby lightness.

It cut the shade way down, but kept the frame strength way up.

It was as graceful and airy as the cobweb.

It was as strong as the heavily framed houses.

The U-Bar does cost more than other constructions. Costs more, simply because it's worth more.

That's the basis on which you buy anything from fertilizers to automobiles.

Just why this U-Bar house with its cobwebby frame is worth more, is what we want the opportunity of proving to you.

We have a new catalog that is said to be convincing.

We will be very glad to have you send for it. Or send for us. Or both.





U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

Vol. XIX
No. 19
MAY 9,
1914

HORTICULTURE



A House of Phalaenopses

Published Every Saturday at 11 Hamilton Place, Boston, Mass.
Subscription, $1.00.

PHALAENOPSIS

for

EVERYONE

SCHILLERIANA AND AMABILIS



A house of Amabilis in full bloom at our San Mateo Nursery. Fully 15,000 Flowers were on exhibition Easter when this photo was taken.

The Finest Spray Orchids
FOR COMMERCIAL USE

We have just received the largest importation of Phalaenopsis ever sent to America. These arrived in excellent condition, and are ready for immediate shipment.

SIZES AND PRICES ON APPLICATION.

MACRORIE-MCLAREN CO.

711-714 Westbank Bldg., SAN FRANCISCO, CAL.

GERANIUMS

We have a quarter of a million of Geraniums in three-inch pots. Good strong topped and branching stock in S. A. Nutt, Mad. Landry, Buchner, Berthe de Presilly, Edmond Blanc, Marq. de Castellane, E. H. Trego, etc. **$3.00 per 100, $25.00 per 1000.**

We have a half million in two-inch pots at **$2.00 per 100, $18.50 per 1000.**

R. VINCENT, Jr. & SONS CO., White Marsh, Md.

ORDERS

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bedding Plants

Geraniums, verbenas, fibrous begonias, fuchsias, ageratums, petunias, Drummondi phlox, salvias and other sorts will now be as well, or better, in frames as in the houses. If plunged a little, all the better, as they will then need less water. On hot days the sashes can be removed entirely, but it will be unwise to leave them uncovered over night or to expose them to soaking rains. All the more tender stock such as coleus, alternantheras, cannas, heliotropes and others will still be better off in the houses but should be gradually hardened. Late-sown seedlings grow faster now and the work of pricking out or potting will occupy a lot of time. Small pots dry out rapidly and it will be necessary on bright days to look after the water several times. Never allow plants to wilt if it can be avoided.

Cinerarias

Cinerarias for next Christmas should now be sown. Sow the seeds thinly in pans of light sandy soil, using more leaf-mold than loam. Water and cover the pans with a sheet of glass, over which lay some paper to keep out the sun. A north house or coldframe is suitable for germinating the seeds. They must not be coddled at any stage of their growth, although they can be kept fairly close until the seeds germinate. Watch carefully that the soil does not dry out; also avoid anything like a close atmosphere. As soon as the little plants have made their second leaves, pot off or prick singly and keep them in a shaded frame, moderately close for a few days. In selecting seedlings do not discard the weak ones, as these are usually the finest varieties. The more vigorous ones are likely to be principally blues. In shading cinerarias avoid placing anything of a heavy nature on the glass. This only makes the plant weaker. Movable shading is far the best.

Memorial Day Trade

About every florist has a host of orders for bouquets for this occasion and there is a large variety of flowers that can be used. Crops of ten-week stocks, double feverfews, snapdragons, gladioli, larkspurs, candytuft, astilbe and lilies all want careful watching. All of the more common greenhouse and bedding plants are in demand for the decoration of graves and cemetery lots; also pot grown flowering plants generally are in big demand as are hardy evergreen creeping and trailing plants such as English ivy, euonymus, etc. Large numbers of lobelias, phlox, verbenas, torenias and similar flowering plants of low growth are called for.

Orchids

It will soon be time to overhaul the phalaenopses. As these handsome orchids pass out of flower, rebasketing or repanning will need attention. I prefer deep, circular baskets. These will carry plants for several years, and an annual top-dressing of fresh sphagnum will be all that is needed. Phalaenopses grow well in a compost of sphagnum and fern fiber. If they are grown in deep, cylindrical baskets and the wood is much covered with active roots, it is unwise to attempt to clear these away as many roots are sure to be injured. A far better plan is to place the receptacles in larger ones, filling up any intervening space with crocks and charcoal and covering the surface with growing sphagnum. They want a warm, moist house and anything like direct air current must be avoided. Phalaenopses come from a much warmer part of the globe than cattleyas and enjoy a warm, moist atmosphere, but air, especially from the bottom, should always be afforded with the temperature over 72 degrees. Avoid a dry atmosphere and there will be practical freedom from the attacks of spider and thrips.

Planting Dahlia

The dahlia does well in any fertile soil, but its preference seems to be for a rich, deep, moist, sandy loam. It should be planted about the middle to the last of May. It requires warmth to start it into growth. Consequently there is nothing to be gained by early planting. The dahlia should be planted so as to permit of easy passage between the plants, as the bushes are very brittle and a touch often will cause great branches to break down. A single row will permit of as close planting as two feet in the row, but rows should be at least five or six feet apart. Planting depth should be about five inches. Frequent and shallow cultivation is essential and when the weather becomes dry you can give weekly waterings. It is always well to plant a batch where the water is handy as these can be forced in ahead of the others. If there is any one requirement for dahlia success, it is plenty of moisture from now on and through the blooming season.

Sowing Annuals for Outside

Now is the time to make a good sowing of annuals such as ageratum, sweet alyssum, calendulas, calliopsis, delphiniums, lupines, giant candytuft, schizanthus, shirley poppies, gypsophila, mignonette, etc. Before sowing make sure that the soil is well pulverized. When they are large enough they can be thinned out so as not to crowd one another.

Mr. Farrell's next notes will be on the following: Amaryllis; Growing Aquatics; Planting Gardenias; Sowing Perennials; Stocks for Winter Flowering; Stock Plants.

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The show window

An attractive show window is one of the most valuable assets of a florists' store. The same is true of the show house, which should always be a part of the outfit of a florist retailing from his greenhouses without any store. It is not, however, enough that a window or a show house be effectively and artistically filled and dressed with fine things, if frequent rearrangements are not made. Passers very soon get used to the appearance of a window display when it is allowed to remain for any length of time and its power of attraction, which is its main purpose, quickly peters out. To change over a window display every day is something of an undertaking but it is one of the strongest cards to play for a winning game, and the more decided and radical the change from one day to another, the more effective the advertisement.

A practical campaign

Flower seeds have been distributed to over two thousand white and one thousand negro children of Houston, Texas, as the initial step in the "brighten up" crusade which is to follow the city-wide "clean-up" campaign. Much of the seed was donated by the Houston Florists' Association. This young organization has given many evidences of which this is one, that it is very much alive and full of the spirit which prompts activity on practical lines. We understand that a proposition is under consideration to invite the S. A. F. to hold its 1915 convention in Houston. An association which is public-spirited enough to start its activities by making itself a power for good in the community and striving to do its part towards the happiness and refinement of the people is already making a high bid for the attention of the national society and the regard of the horticultural interests everywhere.

The dump

The dump! Consigned to the dirt barrel! The very words carry a shivery chill to the heart of the flower grower. All will acknowledge we read them too often, as describing the final disposition of goods that were expected to be turned into ready money in the big city distributing marts. There are various reasons why flowers go to the dump. Inferior quality, bad handling and careless or unskilled packing and, oftener than otherwise, blind, unreasoning shipping to markets already congested with similar or better goods. Many heartburnings would be prevented if parties would first acquaint themselves with conditions at the point of destination before going to the trouble and expense of sending their product on speculation. If it is a surplus stock, then the chances are all against the shipper. But there are occasions when even the best material from regular shippers finds its fate in the rubbish barrel and this is often due to a well-meant but usually futile effort to maintain prices. The question as to which is the better policy—to adhere to a standard price and throw away the unsold remainder or to unload at whatever the goods will bring—is variously answered. Prices, once cut, are restored with difficulty, yet the throwing away of the product of many months of labor seems wicked. In the nature of things we can never hope to eliminate the dump but if its terrible drain on the lifeblood of the business can only be reduced, is not that an object worth trying for?

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communication should invariably be addressed to the office of HORTICULTURE.

Red Spider

Watch out for the spider in the corners of the benches where it is not so very handy to get with the hose, also along the rear of the benches where the best grower is likely to syringe a little too lightly. It will not take very long for the spider to spread all over from these nests as they may safely be called. A good way to do is to get little pieces of cardboard and when tying or doing anything that brings you in close contact with the plants, just hang one up here and there wherever these nests are. This cardboard is very easy to see when you syringe again and these places can then receive an extra good syringing. If the cardboard is not used many of these nests will receive just the ordinary syringe given to the clean plants, this, however not being sufficient to eradicate the spider. If time permits it will be advisable to spray these places with some good insecticide that will go a good ways to kill the spider, too. At any rate put a quarantine tag wherever spider is, and then see that they do not spread.

Houses Too Warm

Although it seldom happens, there is a possibility of the houses being too warm at some part of the twenty-four hours. Whether it is at noon or at night the houses should never be allowed to get too warm as this would soften the growth so that a dose of mildew will follow almost positively. The nights are still too cool to let the fires out, but at the same time the houses should not be allowed to scorch because it may be a little cool outside. See that there is air on, for this will carry away a good part of the excessive moisture and will also render the houses safe in the morning between the time the night firemen leaves and the day men arrive. If the houses are closed up during this time the condensation on the glass will be great and all the air more or less stuffy and stale, just right to breed many of the diseases that the rose is subject to. An inch of air will be all that may be necessary, and will carry the houses very nicely. Then see that they are raised up in time in the morning and not allowed to run up too high before the needed air is put on. Begin at once as soon as the thermometer starts to rise and raise the ventilators as fast as needed. We would not like to see any houses up to 80 degrees unless there was plenty of air put on.

Tying Down The Beauties

Late as the season is, it will still pay to let all the tall Beauty shoots get their tying, and bring them down to where they ought to be without shading a good many of the others. By tying them all down, it will place them all on an equal footing and give all a chance to share the sunlight. When tying see that all the tops are kept in a straight line; not that it will help or make them set, but it will give a finished appearance to the job that will seem missing when this is not done. Further, if this is omitted, and the roses tied one lower than the other and if they are not spaced evenly along the wires, it will seem as if an amateur was at the job instead of a man who ought to know better. It does not take any longer; in fact, time will be saved in future tyings if the plants are tied right, the wood well distributed and the tops kept even. Another item which is hardly worth mentioning for the reason it seems so small and unimportant but will save a little string just the same, and make the whole job look neater, is to cut off the string as close to the knot as possible, instead of leaving the ends sticking out an inch or more, as many growers will do, which makes the wires very unsightly, and is a waste of string besides.

Pots

Now that nearly all the plants will be out of the small pots it may be well to touch on these a little, just enough to remind all that the sunny side of a greenhouse is no place for them. They were baked to the proper hardness at the time that they were made, and therefore they require no exposure to the sun to harden them still more. There is such a thing as a pot that is too hard, for a good pot should be porous and not water-tight by any means. If you must store your pots outside, take the trouble to make a floor so that they will all rest evenly, and thus the breakage will be reduced to a very small number. Then see if you have some old boards that can be made into a roof to keep the weather away from the pots. They will do much better, and the quality of the pot will remain unimpaired. Then when the pots have been washed and are used again you will not be wondering why the plants behave so strange, some drying out very unevenly, in spite of all the pains taken when watering. There are many little things—not for publishing—mistakes in typing for instance—that will gradually wind up in big problems if they are not handled at the proper time. Look after these and you will not have to worry so much.

Nematodes and Peonies

One of our leading peony growers has worked himself up into a considerable consternation on account of the nodules on his peony roots and a certain learned professor has pronounced them dangerous. Bosh! Give us facts and let theories go. I have watched this thing carefully for fifteen years and I find that my most robust and vigorous plants are often loaded with them. Our wise man says the plants should be destroyed and the ground should be sterilized; as well say that alfalfa should be destroyed because the roots have nodules on them. Peonies should not be allowed to stand too long and never should be replanted on the same ground, for no plant sooner exhausts the soil.

People often work themselves up into a needless panic. At the great Denver meeting of the National Society the question of the root knot was brought up. The wise ones claimed that it was an infectious disease and the trees should always be destroyed but some of our enterprising western growers were ready for them. One firm had planted years before a whole row infested with root knot and they had specimens with them. The neighboring trees were not affected and the root knot trees were as vigorous and productive as others. Fools have often had large quantities destroyed for fear of infection. Root knots are warts and you might as well kill a boy because he had warts on his fingers.

C. S. Harrison.

York, Neb.

CLUBS AND SOCIETIES

TEXAS FLORISTS ORGANIZE STATE ASSOCIATION.

The Texas Florists' Association held its first annual convention in Waco, Texas, the formal organization occuring on Monday, May 4, when constitution and by-laws were adopted and officers selected for the ensuing term as follows: President Robert C. Kerr, Houston; Vice-President, W. J. Baker, Fort Worth; Secretary-Treasurer, George M. Cosh, Houston; Press Representative L. J. Tackett, Fort Worth; Educational Director, E. J. Kyle, College Station. The following directors were elected three of whom will serve for one and the other three for two years, the long and short terms to be drawn for by members of the board: T. J. Wolfe, Waco; O. H. Hanna, Sherman; John McAdams, Fort Worth; E. P. Brown, Dallas; F. W. Suchy, San Antonio; Herman Kaden, Gainesville.

President Kerr named the following: Legislative Committee—Sam Dixon, of Houston; H. O. Hanna, of Sherman; J. B. Baker, of Fort Worth; H. B. Beck, of Austin. Committee on State Flower Show: T. J. Wolfe, Waco; George M. Cosh, Houston; Henry Greve, Dallas; L. J. Stubblefield, Fort Worth; Ed. Hall, Austin; W. Suchy, San Antonio; and E. E. Stone, Waxahachie. Finance Committee: Bird Forrest, of Waxahachie; J. E. McAdams, Fort Worth and Charles Alff, Jr., of Austin. Transportation Committee: J. F. Martin, Port Arthur; Charles Alff, Sr., Austin and J. D. Priessner, Galvaston.

It was unanimously decided to hold a state flower show annually, Houston capturing the first. Fort Worth was selected as the next annual meeting place.

During the course of the meeting the following program was carried out proving exceedingly interesting throughout.

Meeting called to order by Chairman organizing committee, Robert C. Kerr, Houston, Texas. Invocation, Rev. E. E. Ingram, Waco, Texas. Addresses of welcome, J. W. Riggins, Mayor of Waco; Mrs. Annie Wolfe Brigance, Waco. Response, L. J. Tackett, Fort Worth, Texas. Addresses of welcome in behalf of the florists of Waco, T. J. Wolfe, Waco, Texas.

Papers. The possibilities of an experimental range of glass for commercial cut flowers—E. J. Kyle, College Station, Texas. Co-operation of the Agricultural Department with the Florists' Association—Sam. Dixon, Houston, Texas. How the Texas State Horticultural Society can co-operate with the Texas Florists' Association, Elwood Pomeroy, Donna, Texas. How the Texas Nurserymen's Association and the Texas Florists' Association can co-operate and work together for the good of horticulture, J. S. Kerr, Sherman, Texas.

W. W. Seley, Mrs. Walter Reese, W. D. John, C. Ray, all of Waco, were elected honorary life members. Tom J. Wolfe, of Waco, was unanimously elected an honorary vice president. He and his sister, Mrs. Annie Wolfe Brigance, were shown great honors by the Convention in appreciation of their great efforts in causing the florists to become organized and in their magnificent entertainment.

The following were in attendence at the first annual convention:

Austin: Chas. Seff, Jr., E. Fredrich, Edgar Hall, Charles H. Alff, Sr., Charles H. Alff, Jr., Thomas J. Miller, H. B. Beck. Brenham: C. Dornberger. College Station: E. J. Kyle, C. M. Evans. Donna: Elwood Pomeroy. Dickinson: E. E. Stone. Dallas: Seth Miller, Robert Wehrli, Charles Benggeli, R. W. Ballantine, Otto Lang, Louis Oesch, J. C. Zell, Henry Holtkamp, Miss Holtkamp, E. P. Brown, H. F. Greve, John M. Dawson. Forth Worth: L. J. Stubblefield, W. B. Green, I. E. McAdams, L. J. Tackett, C. E. Papworth, W. J. Baker. Galveston: H. J. Condron, J. D. Pruenner. Greenville: Wise Adkisson. Hillsboro: Miss Martha M. Wood, W. E. Hunter. Houston: S. J. Mitchell, Hy. H. Kuhlmann, Sr., Hy. H. Kuhlmann, Jr., L. B. Schulte, Mrs. Schroeder, E. Paxton Davis, Jr.,



ROBERT C. KERR
President-Elect Texas Florists' Association

Charles Ehlers, Sam. B. Dixon, R. C. Kerr, George M. Cosh. Sherman: John S. Kerr, A. Y. Koehle, H. O. Hanna. San Antonio: F. C. Suchy, Wm. S. Herzogg, Walter Schumann, Chris. Hauser, Jr., Mrs. F. Bright. Waco: Tom J. Wolfe, Mrs. Annie Wolfe Brigance, W. W. Seley, Jack Ray, W. A. Poage, W. D. Rondthaler, M. B. Davis, J. C. Brown, Herman Hagedorn, Mel D. Webster, E. E. Ingram, J. W. Riggins, T. W. Reed, M. Falkner, R. C. Moler. Waxahachie: Bird Forrest. Wichita Falls: J. L. Downing. Wills Point: R. M. Womack. Tyler: Mrs. Sam. Brown. Temple: Hans Schroeder. El Campo: Mrs. J. E. Wheeler. New York City: Arthur T. Boddington. Denver, Colo.: Joseph Moler. Chicago, Ill.: Frank J. McCabe. Corsicana: William Clowe.

BOSTON CONVENTION NOTES.

Secretary Young has been busy on the floor plans for the Convention Trade Exhibition in Mechanics Building, Boston, next August and diagrams will be ready to mail to all S. A. F. members this week. Judging from the number of inquiries already coming in this exhibition will be the largest in the history of the society.

FINAL RESOLUTIONS OF S. A. F. EXECUTIVE BOARD AT BOSTON MEETING.

Whereas, at the meeting of the Board of Directors of the S. A. F. & O. H., held in Boston Mass., March 17 and 18, 1914, the members have been the recipients of many courtesies and unbounded hospitality at the hands of the florists of Boston:

Therefore, be it resolved that we express our thanks and appreciation to the members of the Florists' and Gardeners' Club and the Mass. Horticultural Society for their thoughtful generosity in providing for our meetings, entertainment and comfort, during our very pleasant sojourn in their hospitable city. We wish to particularly express our appreciation of all courtesies extended in the way of lunches, and as to dinners and banquets provided, all of which were much enjoyed.

We wish to particularly express our appreciation to His Honor Mayor James M. Curley for the cordial reception extended by him to our representatives in expressing his willingness to cooperate with us in the establishment of an outdoor garden in connection with our forthcoming convention.

Special thanks are due and hereby extended to the following named gentlemen for their untiring efforts and sacrifice of time and money in furthering the best interest of the society in behalf of the forthcoming convention of the S. A. F. & O. H.; J. K. M. L. Farquhar, Patrick Welch, E. Allan Peirce, Thos. Roland, Wm. R. Nicholson, Jackson Dawson and others. Also to the daily press for the publicity given to our deliberations.

Thanks are due and hereby extended to Chairman John H. Dillon, of the Boston Park Comission for the automobiles furnished for the splendid ride through the parks and boulevards of Boston. Thanks are also due Deputy Commissioner James B. Shea, of Boston Park System for interest manifested in our welfare in accompanying us on our pleasant and interesting ride and providing a bounteous luncheon and entertainment at his home for the edification and uplift of all present.

Respectfully submitted,

WM. F. GUDE, J. J. HESS, JOHN EVANS.
Committee on Final Resolution.

TORONTO GARDENERS' AND FLORISTS' ASSOCIATION.

It was a difficult task that beset the judges at the spring Flower Show of the Gardeners' and Florists' Association in St. George's Hall, Wednesday, April 29, for every one admitted that there were no poor ones amongst the display.

The prize winners were:

Cut blooms—Yellow roses, J. H. Dunlop; pink roses, J. H. Dunlop; red, W. J. Lawrence; white, Toronto Floral Company; American Beauty, Dale Estate.

Carnations, crimson, scarlet, white, pink and fancy—Miller & Sons.

Miscellaneous cut blooms — Sweet peas, J. H. Dunlop; lily of the valley,

A GROUP OF LENOX GARDENERS.



First Row, Sitting, Left to Right—Stewart Marsden, Thomas Procter, Edward J. Norman, John Hughes, Alexander McConnachie (President of the Lenox Horticultural Society), William Henry, John Baker, James Feeley, Charles Mattoon. Second Row—William Tirrell, John P. Krah, David Dunn, Frank H. Butler, Walter Jack, John P. Donohue, R. A. Schmid, Harry Heermanns. Third Row—George W. Ferguson, A. J. Loveless, A. McLoud, Fred Heermanns, A. H. Wingett, George Foulsham, Edwin Jenkins, S. W. Carlquist, Robert Purcell, George Thompson, Jr.

The superintendents of twenty-seven famous estates of Lenox, Mass., appear in the accompanying picture. Any one accustomed to read the reports of exhibitions given by the Lenox Horticultural Society, will recognize in this list the names of many renowned prize winners. Most of them have presided many years over the grounds and gardens of which they have charge and they constitute the active forces which stand behind the Lenox Horticultural Society, which is everywhere recognized as one of the most useful and prosperous local organizations, representative of the highest ideals in American horticulture.

Dale Estate; snapdragon, Miller & Sons; stocks, W. J. Lawrence.

Group of flowering and foliage plants—H. G. Dillemuth.

Sir Edmund Osler and Sir Henry Pellatt took first prizes for calceolaria and narcissus respectively.

CLUB AND SOCIETY NOTES.

The Cincinnati Florists' Society's regular meeting will be held at the Club Rooms in the Flower Market on Monday, May 11, at 8 p. m.

The next St. Louis Florist Club meeting will be held on Thursday, May 14th, at 2 o'clock, in Odd Fellows' Bldg. This will be a most important meeting and the officers expect a large attendance.

At the next meeting of the New York Florists' Club, which will be on Monday evening, May 11, R. A. Vincent of White Marsh, Md., will give a talk on Geraniums, illustrated with colored stereopticon slides.

The Dallas (Texas) Florists' Club at its meeting on April 22, elected the following officers:

H. F. Greve, president; Otto Lang, vice-president; E. P. Brown, secretary; Louis Oesch, treasurer.

The Boston Retail Florists' Club completed its organization at a meeting and dinner at Hotel Bellevue, Tuesday evening, May 5. Pres. T. F. Galvin, Jr., presided and about 40 sat down to dinner. By-laws were adopted, 25 new members elected and the following officers chosen: T. F. Galvin, Jr., president; Henry L. Comley, vice-president; B. H. Green, secretary; Julius A. Zinn, treasurer. There was a discussion on the use of flowers in the observance of Mothers' Day.

THE SPARK PLUG OF BUSINESS.

There was a good audience to hear the eloquent words of L. W. C. Tuthill at the Florists' Club meeting, Phila., May 5th. He spoke like a prophet and everybody was impressed. There is no doubt but all carried away a new impression about the "spark plug." When a young doctor hangs out his little shingle that's his spark plug, and he thinks the whole world will come rushing to that shingle. But they don't! And why? Far be it from me to pose as an authority. I don't know, myself. Some small items of philosophy I have absorbed, however. It takes the spark plug to start the engine. It takes telling the boys about it, to start the business engine. It's not so difficult if you would only go about it right. Tell your story straight, and then get the mediums that will carry the message. Above all—tell the truth. But there are many ways of telling the truth. There's where the amateur generally falls down. Did you ever hear the homely adage, "Don't sell your hen on a rainy day"? She looks so bedraggled, you would not give a button for her. That's part of the philosophy of advertising. Men who have studied it will tell you that telling it right is the ultimate in human wisdom. And yet the unthinking and the foolish say "Why advertise?" Why let them know what I have to sell? They claim the good goods sell themselves. We have seen the finest goods go to waste—they would not pay for the picking. That answers the good goods proposition. Then on that same point—why hang your sign out over your door, if the goods sell themeslves? Isn't that sign advertising? Nothing to it. And, as Rudyard Kipling would say: "How to do it—that's another story." I have been thirty-eight years at it and I'm still in doubt. But one thing is sure—*any advertising is better than none.*

GEORGE C. WATSON.

WOOD LICE.

Editor HORTICULTURE:

Can any reader give us a good receipt for getting rid of the common wood louse? They are in everything; carnations are being eaten up by them. I would like to hear from some one who has had this trouble and found a remedy for them.

GRANVILLE NURSERY CO.,
Granville, N. Y.

One of the most frequent causes of damage by the common wood louse is decay of the wood work in greenhouses. When this gets into a decayed state it affords them an ideal home and they increase very rapidly particularly in damp and dark surroundings. The most efficient way of getting rid of this pest is to remove all the plants from the structure, take out all rotten wood and fumigate with a very strong dose of hydrocyanic acid gas. General cleanliness at all times is also of great importance.

Personal

Matthew Macnair of Providence, R. I., contemplates taking his usual summer trip to his native place in Scotland and to Paris, this year.

On Friday evening, May 8, J. K. M. L. Farquhar lectured at Greenwich, R. I., presenting a series of instructive stereopticon slides on gardening topics.

W. D. Nickerson, gardener on the M. T. Jones estate, Houston, Texas, will take charge of the summer home of the Jones family at North Conway, N. H., this summer.

Charles Trepole, who was employed by Julius Wolff, 1617 N. 19th street, Philadelphia, at Easter, has been arrested, charged with having stolen ribbon and forged bank checks in Wolff's name.

John Meisem of Elmhurst, N. Y. celebrated his birthday on Friday, May 1, with a party of thirty friends at his home. One of the dainties served was speckled trout from John Donaldson's new domain at Patchogue.

J. K. M. L. Farquhar of Boston, lectured before the Albany Florists' Club at the new establishment of the Albany Cut Flower Exchange, on Thursday evening, May 7. Many beautiful stereopticon views were shown.

Frank Vennemann was married last week to Miss E. Wocher of Kirkwood, Mo. The happy couple are off on a wedding trip. Mr. Vennemann is president of the County Growers' Association and members are planning for a big surprise entertainment when they return home at the end of the month.

William Plumb has received official confirmation by the president of the Panama-Pacific Exposition of his appointment as Superintendent of Floriculture, Department of Horticulture, of the Exposition and entered upon his duties Friday, May 1. He is now calling upon growers and dealers with a view to securing representative exhibits from New York, Boston, Philadelphia and neighboring points. Other territory will be taken up in sequence.

THE ANTI-TRUST BILL.

Washington—The Clayton bill embodying the Administration's program of anti-trust legislation has been reported by the House Committee on Judiciary. Plans will be perfected early next week to pass the measure.

It is the purpose of the House leaders to put the bill through without delay. The Administration is anxious that the Clayton bill, which will be used as a basis for legislation further regulating the operations of interests of interstate corporations, shall be transferred to the Senate at the earliest practicable date.

The committee stood pat on section 7 of the bill relating to labor unions and voluntary associations of farmers. These organizations are not exempted from prosecution as demanded by labor leaders. Section 7 merely declares that labor unions and agricultural associations are legal entities and that the law does not prohibit them "from carrying out the legitimate objects thereof."

Here is the text of section 7:

> That nothing contained in the anti-trust laws shall be construed to forbid the existence and operation of fraternal labor, consumers, agricultural or horticultural organizations, orders or associations instituted for the purpose of mutual help and not having capital stock or conducted for profit, or to forbid or restrain individual members of such organizations, orders or associations from carrying out the legitimate objects thereof.

Section 8 of the bill, prohibiting a corporation from acquiring control of another corporation, originally provided that such merger should be unlawful if the effect was to eliminate or "substantially" lessen competition.

AN IMPORTATION OF PHALÆNOPSIS.



This interesting picture gives some idea of the extent to which orchid importing to this country is being carried on. This shipment was received by MacRorie and McLaren of San Francisco. It contained 10,000 phalænopsis plants which arrived on the steamer "China" on April 11th The shipment comprised Phalænopsis amabilis, Schilleriana and Sanderiana from the Philippine Islands. Among the plants are specimens containing leaves from 18 to 24 inches in length. This is said to be the biggest shipment ever made to America, and represents many years of collecting. A Filipino native of the islands was brought in with the goods to insure their proper care on the trip and also to look after the plants after arrival.

Useful notes on the culture of phalænopses will be found in Mr. Farrell's notes in this issue.

THE GARDENER QUESTION.

Editor HORTICULTURE:

Your Philadelphia correspondent is putting the question up to me so squarely—"How long has M. C. E. been in the business," that it is entitled to a frank reply. My answer is—Long enough to realize that there are still too many in it who do not yet recognize the fact that the entire business is undergoing a transformation, and that conditions that prevailed even a few years ago do not avail today.

As to my qualifications to pass an opinion on the subject which has provoked this question, I submit to him as my credentials, an editorial endorsement, which appeared in HORTICULTURE, Oct. 18, 1914, an authority which he will not question; and from which I quote as follows—"We wish to put on record a word of commendation, for the sentiment and tone of the excellent paper on the gardener and his field which Mr. Ebel read before the Gardeners' and Florists' Club of Boston. . . . ."

In alluding to your P. C., as he terms himself, as an "outsider," he knows that it referred only to his published criticism following his visit to a meeting of an association on the affairs of which he was but slightly informed, and that it in no wise reflected on his able business ability; for, is it not true that whenever I visit "the city of brotherly love," whether for work or play, my first act always is to seek George C. as my guiding star.

As to the burning issue, my position on the question of proper compensation to the gardener is already so well established that it stands in no danger of being misunderstood through any misconstruction that may be placed on it. And I am perfectly willing that all credit of promulgating the fallacy, that those who may require the services of gardeners can be educated that the gardeners' minimum wage scale must be $100 shall go to them that foster it.

Friend Watson, do you know of any profession that has ever been successfully unionized? M. C. EBEL.

Obituary

Mrs. W. S. Manning.

Mrs. Wm. S. Manning, wife of the Superintendent of Baltimore park system, died suddenly on Sunday, May 3. Interment was in Wildwood Cemetery, Winchester, Mass.

W. L. Fronfield.

W. L. Fronfield, Arlington, N. Y., a florist, died at the Bowne Memorial Hospital, Poughkeepsie, on April 20. He had been in failing health for some time, tuberculosis being the cause of death.

J. M. Vandervort.

J. M. Vandervort, founder of the New Antioch Nurseries, New Antioch, Ohio, died at his home April 17th, aged 80 years. He is survived by a son, who was associated with him in the nursery business, and a daughter.

Louis Puzzey.

Louis Puzzey, a retired florist, died on Thursday, April 30, at St. Joseph's Hospital, New York, after a brief illness. He was born in Paris thirty years ago, coming to Brooklyn about ten years of age he settled in the Hill section. He was the proprietor of several flower stands in the wholesale market in New York up to his last illness.

Wm. Hutchinson.

Wm. Hutchinson, one of the oldest florists in St. Louis County, Mo., died April 24 at his home in Kirkwood, where he conducted for many years a retail and growing establishment. Mr. Hutchinson was 71 years old and was suffering for years with cancer. The funeral took place Monday, April 27, and there was quite a large attendance of the local florists. There were many floral tributes expressive of sympathy and condolence to the bereaved family.

John Scott.

John Scott, father of the late John Scott who introduced the Scottii fern, died at Flatbush, Brooklyn, N. Y., on Saturday, May 2. Mr. Scott was an expert gardener of the old school. He was born in Haddington, East Lothian, Scotland. He was employed on the estate of the Earl of Dalkieth for over forty years. He has been a long time connected with his son's establishment and had many friends in Brooklyn. His death was due to the infirmities of old age. He leaves three sons and three daughters.

Clemens Wocker.

Clemens Wocker, for thirty-eight years a wholesale florist who specialized in the growing of carnations, died on Thursday, April 30, at his home, 502 Lenox road, Flatbush, N. Y., from cancer of the throat. For the last four years he had been in ill health and had practically retired, his son, John, carrying on the business. Mr. Wocker was born in Germany fifty-nine years ago, and came to Brooklyn at the age of seventeen years. He started as a florist's helper and then engaged in business for himself. He is survived by a widow, a daughter and a son. Interment was at Evergreen cemetery, Brooklyn.

POSSIBILITIES OF A WINDOW.



The artistic and effective business-bringing possibilities of a window display are but little understood. Everywhere we go, we see splendid chances going to waste. Then some wise one mentions the fact and what happens? A botch!

What is wanted is an artist who knows how. You can see this genius at work everywhere you go in the great business houses of the big cities but you never stop to give credit for the result.

It takes not only native ability and long study and practice to bring about the result. It takes genius to do it. It is an art that must be born with a person in the first place and then developed.

A good example is the lawn mower exhibit at Michell's this week, which the accompanying picture illustrates.

This display is circumscribed in space but in all its parts and dimensions is perfect and you would think it had just happened. "The very art itself is nature."

The artist was Phillip Freud, whom we have had occasion to mention many times in the same connection or similar, during the past twenty-five years. He is a past master.

G. C. Watson.

BRITISH HORTICULTURE.

A Narcissus Disease.

In a recent issue of the "Kew Bulletin," Prof. G. Massee gives some interesting information respecting a disease of an unusual kind, which was met with three years ago on narcissus bulbs. During last year the disease increased so alarmingly that entire plots of bulbs were completely destroyed. The injury is due to a parasitic fungus, called Fusarium bulbigenum. Usually the presence of the parasite is indicated by the appearance of small yellowish spots on the leaves. These spots gradually increase in size, become brown and dry, and more or less covered with pale salmon-colored specks, which are at first more or less gelatinous, but soon become dry when exposed to the air. The writer points out that the continuance of the disease may be due to two independent causes i. e. slightly diseased bulbs or infected soil. The disease is known in Holland.

Spring Rose Show.

There was a fine display of bloom at the spring rose show of the National Rose Society held at the Royal Horticultural Hall, London, on Thursday, April 23. A satisfactory list of entries was received for the 27 classes. About a dozen novelties were exhibited. Cards of commendation were allotted to Mrs. S. W. Wright, a salmon-edged pink Tea, from A. Dickson & Sons; Autumn Tints, a H. T. similar in tint to the Lyon, from B. Cant & Co., and Prince Charming, salmon-pink H. T. from Hugh Dickson. W. H. Adsett.

NEWS NOTES.

Superior Wis.—On May 1, G. Tjensvold and William Berg, proprietors of the Superior Floral Company moved from 1418 Tower avenue to larger quarters at 1410 Tower avenue, they having bought out the business hitherto conducted by J. J. LeBorious. LeBorious will go out of business in the city. Mr. Berg has up to the present time been assistant chief clerk at the general offices of the Great Northern railway. The Superior Floral Company has at Billings Park greenhouses with 12,000 square feet of glass. The retail business will be handled at the Tower avenue store and the wholesale trade at the greenhouses.

Bridgeport, Conn.—Stephen D. Horan appeared before the committee on claims last week with a petition for reimbursement for the damages he says he sustained by the construction of a curb, gutter and sidewalk on Cherry street last year, he alleging that the work is causing one of his greenhouses, one of the largest and best in the state, to fall down while many feet of his fence has already done so. It seems that last summer the common council ordered a curb, gutter and sidewalk laid on Cherry street. A portion of the street abuts on Mr. Horan's property and at this point there is a slight rise in the ground. Mr. Horan admits that he was notified to do this work but did not do it and that it was afterwards done by the city, the men cutting down the earth several feet in the rear of his greenhouses in order to do it.

ARNOLD ARBORETUM.

(Bulletin of Popular Information, No. 52.)

The winter of 1913-14 will be remembered in all parts of eastern North America as a winter of exceptional severity. The unusually low temperature accompanied by high gales of a day or two in January when there was no snow on the ground, and the severe cold and high winds of late February and early March caused much anxiety to the lovers of plants in eastern Massachusetts. So far as the Arboretum is concerned these fears have not been realized, for the losses from the winter here are few and unimportant. The plants of a small rhododendron, R. Gowenianum, chiefly interesting as one of the hybrids between an azalea and a rhododendron, have been killed; otherwise the rhododendrons are in remarkably good condition and their flowering promises to be the best that the Arboretum has seen. A few of the small, half hardy conifers, like some of the Torreyas and Cephalotaxus planted near the top of Hemlock Hill, have suffered but will probably recover, and here and there through the Arboretum the dead tips of small branches show how severe the winter has been. Even small plants of Buckeyes from Georgia and Texas, and several species of plums from Texas planted in the open ground, show no signs of injury.

The effects of the cold on the new plants from western China are of special interest for it would seem that any plant that could survive such a winter might be considered hardy. It is gratifying, therefore, to find that very few of the Chinese plants even when planted in the most exposed positions have suffered. The oaks, birches, poplars, willows, ashes, cherries, plums, yellowwoods, Davidias, eucommia, catalpas, berberis, cercidiphyllum, most of the cornels, viburnums, cotoneasters, honeysuckles, spiraeas, lilacs, several of the evodias and ehretia and many others are uninjured. Some of the Chinese roses, as might have been expected, are killed back nearly to the ground, while others are quite unhurt. Two of Wilson's conifers, Picea Watsoniana and Tsuga chinensis, have been growing for three years in the open ground without protection and are now as bright and fresh as any conifer in the collection. This is interesting for these two trees came from the region where Wilson later found the large number of new conifers, the introduction of which into cultivation was one of the important results of his travels, and the hardiness of this spruce and hemlock indicate that other species from the same region may perhaps be equally hardy in New England.

It is interesting to note that the flowers of the winter-flowering witch hazels from southern Missouri, Japan and western China were not affected by the severe cold. The Chinese species, Hamamelis mollis, produced its flowers for the first time in the Arboretum in February. These flowers are larger than those of the other species; the petals are bright yellow and remained for weeks in good condition. This promises to be a valuable plant for persons who can use winter-flowering shrubs.

The spring is exceptionally late. The bluebirds did not arrive this year until March 25th; they have been known to some as early as the 21st of February, and the average date of their arrival for the last thirty years is March 9th. In the bulletin published last year on April 25th there was announced the flowering of several cherries, of the amelanchiers, of some of the forsythias, and of other plants which are now only just beginning to enlarge their buds. A week later the Japanese Euptelea polyandra was in flower, and the branches of the Chinese Prunus tomentosa were already covered with its handsome flowers.

In spite of the lateness of the season several trees and shrubs, however, are already in flower. The branches of the White Elm, Ulmus americana, the earliest of the elm trees to open its buds here, have been brown for several days with the clusters of its small flowers, and the Scarlet Maple (Acer rubrum) is gay with its crowded flowers which cover its otherwise naked branches and are on some individuals scarlet and on others pale red or yellow.

The earliest exotic tree to flower this year is the European Dogwood or Cornel, Cornus mas, often called the Cornelian Cherry. The small bright yellow flowers in dense clusters now cover the leafless branches and make the plants conspicuous in early spring. The leaves, which will unfold as the flowers fade, are abundant, of good size and pleasant color, and the bright scarlet lustrous fruits, which are the size of large cherries but oblong in shape, hang gracefully on slender stems and are very ornamental. This small tree is perfectly hardy and probably was better known and more generally planted fifty years ago than it is now. It is not flowering particularly well this year, but many specimens can be seen in the shrubberies of the Boston parks now in full flower; and there is an exceptionally large and shapely tree on the Boylston street side of the Boston Public Garden near the entrance to the subway.

Many of the alders are in flower and their delicate blossoms will well repay careful examination. The flowers of several willows in the collection planted along the eastern border of the great meadow are now open, and during the next two weeks others will appear in succession. It is at this period that these trees and shrubs are seen in their greatest beauty and are most interesting to the student.

The spice bush (Benzoin aestivale) is just opening its flowers. This is a native of the eastern United States and an inhabitant of the borders of swamps where it sometimes grows to the height of ten or fifteen feet. The flowers are small, bright yellow, and the male and female flowers are produced on different individuals, so that some of the plants only bear the small, scarlet, shining fruits which contrast so well with the bright yellow autumn foliage. The leaves are fragrant like those of its relative, the sassafras, and are not injured by insects. The Leatherwood group (Dirca palustris) is now covered with its beautiful small yellow flowers. This is one of the most successful groups in the Arboretum and should be visited by persons interested in early spring flowering shrubs of good habit and entire hardiness.

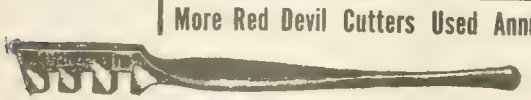
The earliest magnolias are just opening their flower-buds. These are two Japanese species, Magnolia stellata, M. kobus and its northern form var. borealis. These plants, like many other Asiatic species, open their flowers before the leaves appear. The former is a shrub which may in time be expected to grow to the height of ten or twelve feet and to spread to a diameter equal to its height. It is perfectly hardy and one of the bost beautiful of all early spring flowering shrubs but, like several of the other early flowering magnolias, it blooms too early and the flowers are often injured by late frosts. This is true, too, of Magnolia kobus and its variety. The latter is a larger and more vigorous tree than the typical Magnolia kobus, which in the Arboretum has remained shrubby in habit. These two plants, in their young state at least, do not produce large quantities of flowers and their flowers are less beautiful than those of many magnolias, but the northern tree grows rapidly, is very shapely and covers itself with dense, dark green, handsome foliage.

Other plants now in bloom are the European Daphne Mezereum and Erica carnea. The former is a small shrub sometimes growing to a height of eighteen inches or two feet, and is ornamental when it is covered with its small flowers, and later in the season when its red fruits are ripe. Erica carnea is one of the few heaths which are hardy in this climate and the first of the genus to flower here.

The interest in native birds is now so great, and fortunately so rapidly increasing, that it may be interesting to make known some of the resources of winter bird-food which can be found in the Arboretum.

In March a representative of the Department of Agriculture at Washington came to the Arboretum to study the plants found here which might furnish birds with winter food. His examination revealed the fact that fleshy fruits of the sort eaten by birds were still hanging on the branches, and in good condition, of one hundred and ten species of trees and shrubs, and that the fruit of fifteen other species, although dry, was still available as bird-food. These one hundred and twenty-five species belong to thirty genera. Of the species only forty-nine are natives of the United States and only thirty of New England. In the course of a few years, moreover, the number of plants producing winter food for birds will probably be largely increased in the Arboretum by recent introductions.

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2¼-inch Heliotropes, 3 varieties; Lantanas, 6 varieties; Marguerites, 3 varieties, $2.75 per 100; $25.00 per 1000. Correspondence solicited.

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NEW YORK NOTES.

Chas. Loechner of New York city is on a business trip through the west.

John Meisem of Elmhurst, N. Y., expects to sail for Europe about May 31.

The New York office of Peters & Reed of Zanesville, Ohio, has been removed to 23 West 23rd St.

A. T. Boddington of New York is in Texas this week in attendance on the State Florists' meeting at Waco.

Julius Roehrs of Rutherford, N. J., intends to start on a European trip early in June.

The Old Farm Nurseries (H. Den Ouden & Son), Boskoop, Holland, have appointed Otto Heinecken, 17 Battery Place, New York, as their American agent.

The New York Cut Flower Exchange and Charles Millang have both secured a new five-year lease on the premises they have been occupying in the Coogan building.

John Donaldson of Elmhurst, N. Y., has just returned from a pleasure trip to Richmond, Va., where he reports having had a very enjoyable time. Mr. Donaldson having recently disposed of his home and greenhouse property has purchased a place in Patchogue, and will move there this summer.

At the annual meeting of the Cut Flower Exchange on Saturday, May 2, John Donaldson handed in his resignation as president and John Schneider of Astoria was elected to fill his place. Alex Burns was chosen to succeed Mr. Donaldson on the board of directors. The balance of the officers were re-elected.

Quite a few of the wholesale florist establishments announce that hereafter their places will be closed all day Sunday. This is in line with the general trend of sentiment among the wholesale flower trade and the stringent laws governing the hours of labor will doubtless result in an entire cessation of Sunday work in the wholesale district.

John R. Weir has severed his connection with the James Weir Incorporated concern, Brooklyn, N. Y. "Johnnie" Weir, as he has been familiarly known to the flower trade of New York for thirty or forty years has an unimpeachable record for business integrity and in whatever new connection he may establish he will have the sincerest good wishes of the entire trade.

M. C. Ebel, of Madison, N. J., F. L. Atkins, of Rutherford, N. J., and W. H. Siebrecht, of Chappaqua, N. Y., have been added to the New York Flower Show Committee. The committee met and organized for the work of the next show, and elected F. R. Pierson, chairman, Theodore Havemeyer, vice-chairman, John Young, secretary and business manager, and F. R. Newbold, treasurer. The show will open at the Grand Central Palace on Wednesday, March 17, 1915, at 2 P. M., and close on the following Tuesday night. The next meeting of the committee will be held on Monday, May 11, for the purpose of preparing the preliminary schedule.

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GRAFTED STOCK, $15.00 per 100; $120.00 per 1000.
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POPAYAN TYPE TRIANAT, Old Coast Variety, by case or dozen.

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THE MIRACLE.

Unlovely things they were and cold
As Death itself, last fall—
The bulbs I planted in the mold
Beside my garden wall.
Yet here above each sodden husk
A bourgeoned beauty blows
And fills with hyacinthine musk
The little garden-close.

Ah! lovelier, dearer seed than mine,
Albeit cold as they,
I watched my widowed friend consign
To church-yard mold today.
Yet he, in darkness, questioning
The same Benignant Power,
Can neither see the distant spring
Nor visualize the flower.

—*T. A. Daly, in Catholic Standard and Times.*

HELIOTROPE, fine short bushy plants, 2¼ in., $1.75 per 100; $15.00 per 1000.
COLEUS, Golden Bedder and Verschaffeltii or mixed R. C., 60c. per 100; $5.00 per 1000.
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Albion (Medium). One of our own introductions; producing very large panicles of pure white flowers, with faint aniline-red eye.
Aglae Adanson (Medium). Large snow-white with violet-rose eye.
Antonin Mercie (Medium). Light ground color, upper half of each petal deeply suffused bluish-lilac, large white halo.
Bacchante (Tall). Tyrian rose, with crimson-carmine eye.
B. Comte (Medium). Brilliant French purple, with crimson-carmine shadings. 85 cts. per doz.; $6.00 per 100.
Bridesmaid (Tall). White, with large crimson-carmine centre.
Caran d'Ache (Medium). Geranium-red, with old-rose shadings and white eye; very effective.
Champs Elysee (Dwarf). A very bright rosy magenta.
Colibri (Tall). White, with crimson-carmine centre, very late.
Coquelicot (Dwarf). A fine pure scarlet, with crimson-red eye. 85 cts. per doz.; $6.00 per 100.
Danton (Medium). Scarlet, pure red eye.
De Miribel (Medium). White, suffused with bright rosy scarlet, red eye.
Diadem (Drawf). A fine dwarf, pure white.
Eugene Danzanvillier (Tall). Lilac, shading white toward the edges; large white centre.
Frau Dora Umgeller (Medium). Solferino red, shading to carmine-crimson at centre.
General Giovaninelli (Dwarf). Bright tyrian rose, with light shadings at the base of each petal, a pure red eye; very effective.
Goliath (Very tall). Rich carmine, shading to a deep centre.
Helena Vacerasco (Dwarf). Large pure white.
Henry Marcel (Medium). Pure red, with bright salmon shadings.
Henry Murger (Tall). White, crimson-carmine centre.
Henry Royer (Medium). Tyrian rose, with lighter shadings.
H. O. Wijers (Tall). White, with bright crimson-carmine eye.
Jeanne d'Arc (Tall). A good standard late white.
Jules Cambon (Medium). Bright rosy magenta, with large white centre and light halo.
Kucken (Medium). Bright carmine-rose shaded salmon.
La Vague (Medium). Pure mauve, with aniline-red eye.
Le Mahdi (Medium). Deep reddish-violet, with darker eye.
Le Prophete (Dwarf). Bright violet-rose, large light halo and bright rose eye; fine.
Louise Abbema (Dwarf). Very large dwarf, pure white, fine form.
Mme. Paul Dutrie (Tall). A delicate lilac-rose, reminding one of some of the beautiful soft pink Orchids.
Mozart (Tall). Ground color white, suffused salmon; aniline-red eye.
Mrs. Jenkins (Tall). The best tall early white for massing.
Obergartner Wittig (Medium). Bright magenta, with crimson-carmine eye; large flower and truss; one of the best.
Pacha (Dwarf). Deep rose pink, suffused with solferino-red and carmine-purple eye.
Pierre Bayle. Crimson-carmine, overlaid with orange scarlet.
Professor Virchow (Medium). Bright carmine, overlaid with orange scarlet.
Prosper Henri (Tall). Pure white, large decided rosy magenta eye.
Selma (Tall). Large flower, pale rose mauve, with claret-red eye.
Sunshine (Dwarf). Large, aniline-red with crimson-red eye and light halo.
Von Goethe (Medium). Tyrian rose suffused carmine-lake and bright carmine eye.
Von Lassburg (Medium). The purest white in cultivation, individual flowers larger than any other white.

Price. Any of the above varieties, except where noted otherwise, 75 cts. per dozen; $5.00 per 100; $40.00 per 1000.

New Varieties of Phlox

Asia. One of the most valuable recent introductions, a delicate shade of mauve, with a crimson-carmine eye.
Braga. Mauve-rose, more or less suffused with salmon; large white eye; a distinct and pleasing color combination.
Europa. A white variety with very decided crimson-carmine eye; the individual flowers as well as the trusses are very large, entirely distinct.
Manzelbrunner. A very large bright soft pink, with a large white eye.
Rynstrom. An improved form of the popular variety Pantheon; fine for massing, of a Paul Neyron Rose color.
Rosenberg. Bright reddish-violet, with blood-red eye, large truss and individual flowers as large as a silver dollar.
Rheinlander. A beautiful salmon-pink with flowers and trusses of immense size, the color of the flower is intensified by a very decided eye of a deep claret-red. 30 cts. each; $3.00 per doz.; $20.00 per 100.
Wanadis (Medium). Entirely distinct, a mottling of white and light violets, reminding one of Phlox Divaricata Canadensis. The color is intensified by a bright reddish-purple eye. 30 cts. each; $3.00 per dozen.
W. C. Egan. One of the best and largest flowering varieties in our collection, panicles of immense size, of a delicate pleasing soft shade of lilac which is illuminated by a large bright solferino-red eye. 30 cts. each; $3.00 per doz.; $20.00 per 100.
Widar. A splendid improvement on Edmond Rostand; in color a light reddish-violet, with very large white centre, which intensifies the color.
Tragedie. Deep brilliant carmine with blood-red eye. $1.50 per doz.; $10.00 per 100.

Price. Any of the above varieties, except where noted, $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

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Vicissitudes of the Weather.

It seems somewhat monotonous to be repeatedly commenting on the weather and the lateness of the spring, but the fact is that the weather has such a very important bearing on the seed trade in general and especially counter-trade, which is a very large factor with many of our seedsmen, that it is difficult to get by without reference to the subject. Old Father Neptune seems to be spilling rain abundantly on this part of the earth and whether this means that later in the season we shall suffer from the opposite condition is a question that only the future can solve, but if we may judge by past experience it looks very much that way. A few prophets are already predicting a cold wet summer and a very light, poor corn crop, which usually follows such a summer. We do not wish to be pessimistic and only refer to these prophecies, and our readers can take them at their own valuation.

Notwithstanding the unfavorable spring, it seems to be an established fact that the mail order houses have had a very good business, most of them expressing satisfaction and many claiming an increase over any previous year.

Maine Seed Potatoes.

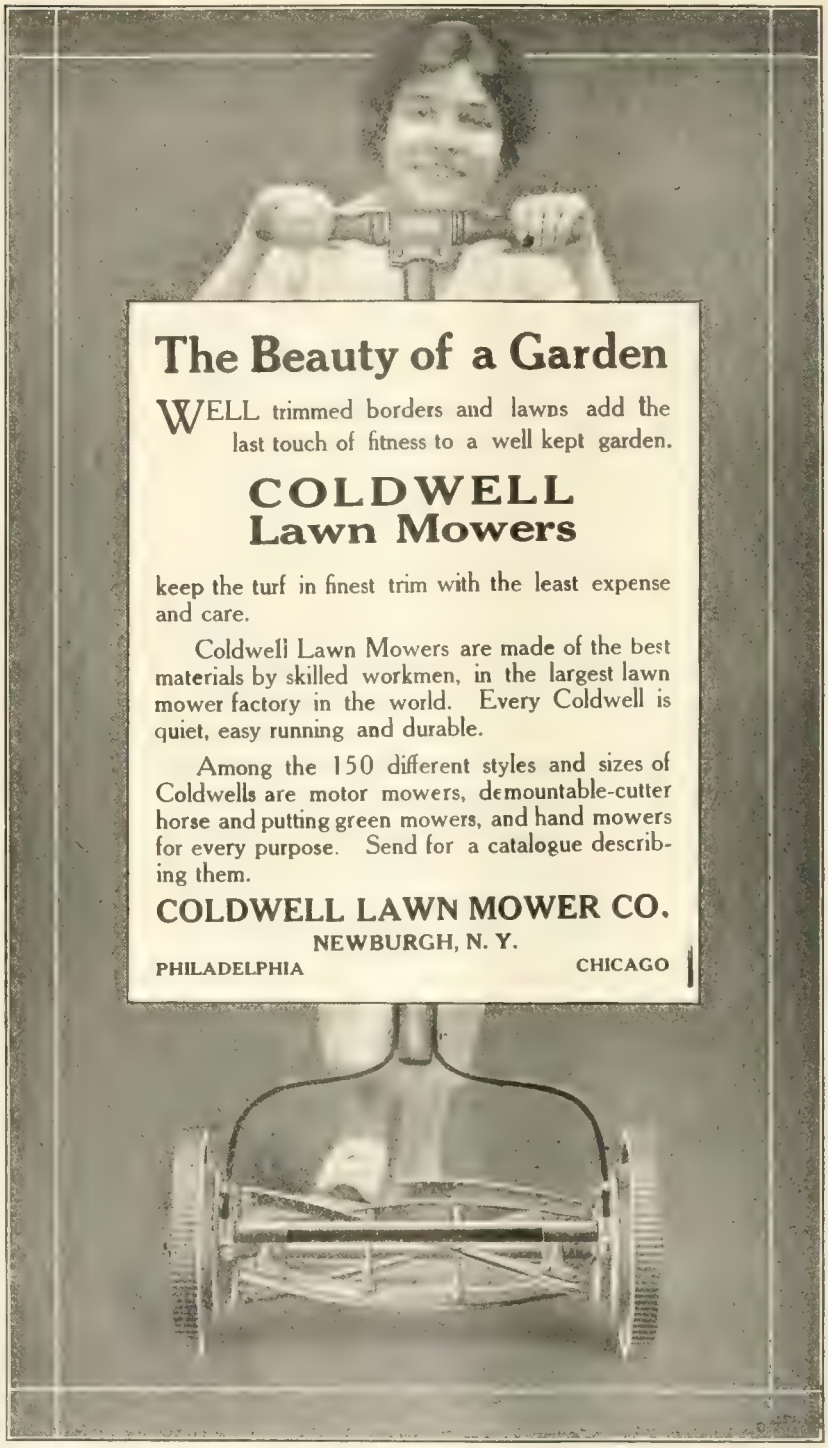
More or less has been said about Maine seed potatoes being affected by disease, and it is charged that fraudulent certificates have been issued on diseased stock which has gone into the hands of farmers in different sections of the country. While there is doubtless some truth in these charges, we are inclined to think they are somewhat exaggerated; although the matter was considered serious enough to justify a warning from the Secretary of Agriculture himself. Prices of potatoes according to recent information, have advanced within the past ten days, though the reasons are not clear. Quite possibly those engaged in the business may understand, but no satisfactory explanations have reached us.

Beans and Peas.

We have been expecting to see beans of various varieties included in the surplus lists issued from time to time by numerous houses in the trade, but while some varieties have been listed, the sorts reputed to be scarce appear on but very few lists, showing conclusively that the shortage was a reality and not a dream. Many dealers early in the season expressed the opinion that there were more beans in the country than most of the trade believed, and that they would be coming out towards spring; for once these prophets must admit they were mistaken.

While doubtless there will be a considerable carry-over of peas, we have been advised by several dealers during the past week, that with the exception of two or three varieties they will be nearly cleaned up on peas by the end of the season. We should not be surprised if the surplus proved smaller than most persons believed possible a month or six weeks ago. The general line of seeds seems to be holding out well and with the exception of the Globe varieties of onion, stocks are plentiful and prices have not advanced over those ruling early in the season.

We have from time to time referred to certain houses in the trade which have attracted attention, and now have in mind Chas. F. Saul, of Syracuse, N. Y. Mr. Saul has been in business many years, and has established a reputation for quality and integrity which may be truly called "gilt edge." He does a big business, especially in



VEGETABLE PLANTS

CABBAGE—Jersey & Chas. Wakefield, All Head, Early & Late Flat Dutch, and other varieties at 20c. per 100; 75c. for 500; $1.00 per 1000; 10,000 and over at 85c. per 1000.
LETTUCE—Grand Rapids, Boston Market & Big Boston, 20c. per 100; 75c. for 500; $1.00 per 1000. Cash with Order.

R. VINCENT, JR. & SONS CO.
White Marsh, Md.

Sow Sweet Pea Seed Now

The best success is secured by sowing your seed as soon as the frost is out of the ground. It is vital, so don't delay.

Boddington's Quality Sweet Peas

You may deduct 5% if cash accompanies the order

Those marked with a star (*) are Spencer or Unwin type.

	Color	PRICES Lb.	¼ lb.	Oz.
*APPLE BLOSSOM SPENCER (Burpee, 1908)	Rose, or pink and white	$1.75	$0.60	$0.15
*BEATRICE SPENCER (Morse, 1907)	Light pink, buff and pink	1.75	.50	.15
*BLACK KNIGHT SPENCER (Stevenson, 1908)	Maroon	2.50	.75	.25
BLANCHE BURPEE (Eckford, 1895)	Pure white	1.00	.35	.10
*BLANCHE FERRY (Ferry, 1886). Extra early	Rose, or pink and white	1.25	.40	.15
*BLANCHE FERRY SPENCER (Routzahn, 1908)	Rose, or pink and white	2.50	.75	.25
*CANARY (Boddington, 1906)	Pale yellow, or primrose	2.00	.75	.25
*CAPTAIN OF THE BLUES SPENCER (Morse, 1909)	Blue and purple	3.00	1.00	.35
*COUNTESS SPENCER (Cole, 1901)	Light pink shades, etc	2.00	.60	.20
DAINTY (Morse, 1902)	Light pink shades, etc	1.00	.35	.10
*DAINTY SPENCER (Morse, 1910)	Light pink, almost white	2.50	.75	.25
DOROTHY ECKFORD (Eckford, 1901)	Pure white	.75	.20	.10
EARLIEST OF ALL (Burpee, 1898)	Rose, or pink and white	2.00	.75	.25
*E. J. CASTLE (Unwin, 1907)	Rose crimson	.75	.20	.10
*ENCHANTRESS (Stark, 1906)	Light pink shades, etc	2.00	.60	.20
*ETHEL ROOSEVELT (Burpee, 1910)	Straw and crimson	2.00	.60	.20
*ETTA DYKE SPENCER (Breadmore, 1907)	White	5.00	1.50	.50
FLORA NORTON (Morse, 1905)	Blue and purple	.75	.20	.10
*FLORA NORTON SPENCER (Morse, 1908)	Blue and purple	2.50	.75	.25
*FLORENCE MORSE SPENCER (Morse, 1903)	Light pink and clear pink	2.50	.75	.25
*FRANK DOLBY (Unwin, 1907)	Lavender and mauve	2.00	.60	.20
*GAIETY SPENCER (Routzahn, 1910)	Striped and mottled	2.00	.60	.20
*GEORGE HERBERT (Breadmore, 1905)	Light pink, shaded deeper pink	2.00	.60	.20
*GLADYS UNWIN (Unwin, 1904)	Light pink shades, etc	1.00	.25	.10
HELEN PIERCE (Morse, 1905)	Violet, feathered white	1.50	.50	.15
*HELEN LEWIS (Watson, 1904)	Orange pink, etc	2.50	.75	.25
HENRY ECKFORD (Eckford, 1904)	Orange pink	.75	.20	.10
HONORABLE MRS. E. KENYON (Eckford, 1900)	Pale yellow, or primrose	.75	.20	.10
*JUANITA SPENCER (Routzahn, 1909)	Striped and mottled	2.00	.60	.20
*KING EDWORD SPENCER (Burpee, 1908)	Crimson scarlet	2.00	.60	.20
KING EDWARD VII (Eckford, 1903)	Crimson scarlet	1.00	.35	.10
LADY GRISEL HAMILTON (Eckford, 1899)	Lavender and mauve	1.00	.35	.10
LOTTIE ECKFORD (Eckford, 1890)	Lavender and mauve, picotee edge	1.00	.35	.10
LORD NELSON (House)	Violet and indigo	1.00	.35	.10
LOVELY (Eckford, 1895)	Light pink shades, etc	1.00	.35	.10
*LOVELY SPENCER (Morse, 1908)	Light pink, buff and pink	3.00	1.00	.35
*MARIE CORELLI (Morse, 1909)	Rose crimson	3.00	1.00	.35
MRS. GEORGE HIGGINSON, JR. (Morse, 1903)	Lavender and mauve	.75	.20	.10
*MRS. HUGH DICKSON (Dobbie, 1909)	Creamy pink	2.00	.60	.20
*MRS. ALFRED WATKINS (Unwin, 1906)	Light pink shades, etc	.75	.20	.10
MRS. COLLIER (Dobbie, 1906)	Pale yellow and primrose	.75	.20	.10
MRS. WALTER WRIGHT (Eckford, 1902)	Mauve and blue	.75	.20	.10
*MRS. WALTER WRIGHT SPENCER (Routzahn, 1908)	Mauve and blue	3.00	1.00	.35
MONT BLANC (Benary, 1901)	Pure white	2.00	.75	.25
NAVY BLUE (Burpee, 1899)	Violet and indigo	.75	.20	.10
*NORA UNWIN (Unwin, 1905)	Pure white	1.50	.50	.15
*OTHELLO SPENCER (Morse, 1908)	Maroon	2.00	.60	.20
*PARADISE (Hemus, 1906)	Light pink shades, etc	2.00	.60	.20
PHENOMENAL (Morse, 1905)	Lavender and mauve, picotee edge	1.00	.35	.10
*PRINCE EDWARD OF YORK SPENCER (Routzahn, 1909)	Orange pink, or salmon	2.00	.60	.20
*PRIMROSE SPENCER (Morse, 1908)	Pale yellow, or primrose	2.00	.60	.20
PRIMA DONNA (Eckford, 1896)	Light pink and clear pink	1.00	.35	.10
QUEEN ALEXANDRA (Eckford, 1905)	Crimson scarlet	1.00	.35	.10
*QUEEN ALEXANDRA SPENCER	Crimson scarlet	2.50	.75	.25
*QUEEN VICTORIA SPENCER (Burpee, 1909)	Primrose and rose	1.75	.50	.15
*RAMONA SPENCER (Morse, 1909)	Striped and mottled	2.50	.75	.25
ROMOLO PIAZZANI (Eckford, 1904)	Mauve and blue	1.00	.35	.10
*RUBY SPENCER, Routzahn, 1909)	Crimson scarlet	2.00	.75	.25
*SAINT GEORGE (Hurst)	Crimson scarlet	2.00	.75	.25
*SATIN QUEEN SPENCER (Routzahn, 1910)	Primrose pink	2.00	.75	.25
*TENNANT SPENCER (Morse, 1908)	Mauve and blue	2.00	.60	.20
*WHITE SPENCER (Burpee, 1907)	Pure white	2.00	.60	.20
*W. T. HUTCHINS (Spencer) (Morse, 1909)	Light pink, buff and pink	3.00	1.00	.35
*SPENCER MIXTURE	Mixed	1.00	.25	.10
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New York Seed Notes.

Otto Heinecken has moved his office from the 28th to the 17th floor of the Whitehall Building, 17 Battery Place, New York. Room number is 1736.

Burnett Bros. report an extraordinarily large call for lawn grass seeds this spring. Sales of roses have been very large, also of rhubarb and other vegetable garden plants.

A very heavy mail and express trade has been experienced at Peter Henderson & Co.'s store but counter trade has been disappointing thus far. The tardy spring is undoubtedly responsible for the light counter trade reported by all the city seed houses.

STATEMENT OF OWNERSHIP, MANAGEMENT, ETC., OF HORTICULTURE.

As Required by the Act of Congress, August 24th, 1912.

Publisher—Horticulture Publishing Co., Boston. Editor and Business Manager—Wm. J. Stewart. List of stockholders holding one per cent. or more of total amount of stock—W. W. Castle, N. F. Perkins, Wm. J. Stewart, J. K. M. L. Farquhar, P. Welch, David Welch, of Boston, Mass.; Estate of F. R. Mathison, Waltham, Mass.; J. H. Morton, Mattapan, Mass.; Thos. Young, Jr., W. F. Sheridan, F. H. Traendly, Chas. Schenck, John I. Raynor, New York City; W. F. Kasting, Buffalo, N. Y.; A. S. Burns, Elmhurst, N. Y.; H. H. Battles, S. S. Pennock, Philadelphia, Pa.; John Burton, Chestnut Hill, Philadelphia, Pa.; Estate of Carl Jurgens, Newport, R. I.; Philip Breitmeyer, Detroit, Mich.; Fred Lautenschlager, Chicago, Ill. Bondholders, mortgagees and other security holders—none. Borrowed money none Notes—none.

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Beloit, Wis.—Wm. Stuart, Emerson Building.

Brockton, Mass.—Jahn, Florist, 28 Ward street.

New York City—Thomas Young, Jr., 54 W. 45th St.

Superior, Wis.—Alex. C. Gardiner, 1418 Tower Ave.

Worcester, Mass.—H. F. Littlefield, 115 Front street.

Northampton, Mass. — Alexander Parks, Trolley Waiting Station.

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Minnetonka, N. Y.-London....May 23

Cunard
Franconia, Boston-Liverpool..May 12
Lusitania, N. Y.-Liverpool....May 19

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La Lorraine, N. Y.-Havre.....May 13
Niagara, N. Y.-Havre.....May 16
La Provence, N. Y.-Havre... May 20

Hamburg-American
Pennsylvania, N. Y.-Hamb'g...May 14
Imperator, N. Y.-Hamburg...May 16
Pres. Lincoln, N. Y.-Hamburg.May 21

Holland-America
Noordam, N. Y.-Rotterdam...May 12
Ryndam, N. Y.-Rotterdam....May 19

North German Lloyd
Kronp. Wilhelm, N. Y.-B'm'n..May 12
G. Washington, N. Y.-Bremen.May 16
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Red Star
Finland, N. Y.-Antwerp.....May 16
Lapland, N. Y.-Antwerp.....May 23

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Celtic, N. Y.-Liverpool.....May 14
Majestic, N. Y.-Southampton..May 16
Cretic, Boston-Mediterranean.May 16
Arabic, Boston-Liverpool.....May 26

Pontiac, Mich.—Mrs. L. C. Lewis, Waldo Block, E. Huron street.

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NEWS NOTES.

New London, O.—The Elder Floral Company, B. H. Starbird & Co., proprietors, succeeds the Chase Floral Co.

Frankfort, Ky.—The Park Floral Company, Wilkinson & Pierce, proprietors, have leased the greenhouses of Mrs. E. C. Henry for five years.

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Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
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New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
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NEW CORPORATIONS.

Brooklyn, N. Y.—J. Ebb Weir & Co., florist, $60,000; A. W. Hawkins, A. M. Bannerheim, J. E. Weir, 149 E. 83d street.

Memphis, Tenn.—The Flower Shop, capital stock, $3,000. Incorporators, Mary E. Irby, Kate Harris, J. W. Turbeville, Susie Dickens and P. M. Canale.

Ashtabula, O.—Ashtabula Lettuce & Vegetable Co., capital stock, $20,000. Incorporators, E. R. McCune, F. E. Davenny, G. H. Ford, H. D. Cook and A. J. Kain.

Farmingdale, N. Y.—Richard Franke has purchased the establishment of Kramer Bros., and will conduct it as a floral and nursery business.

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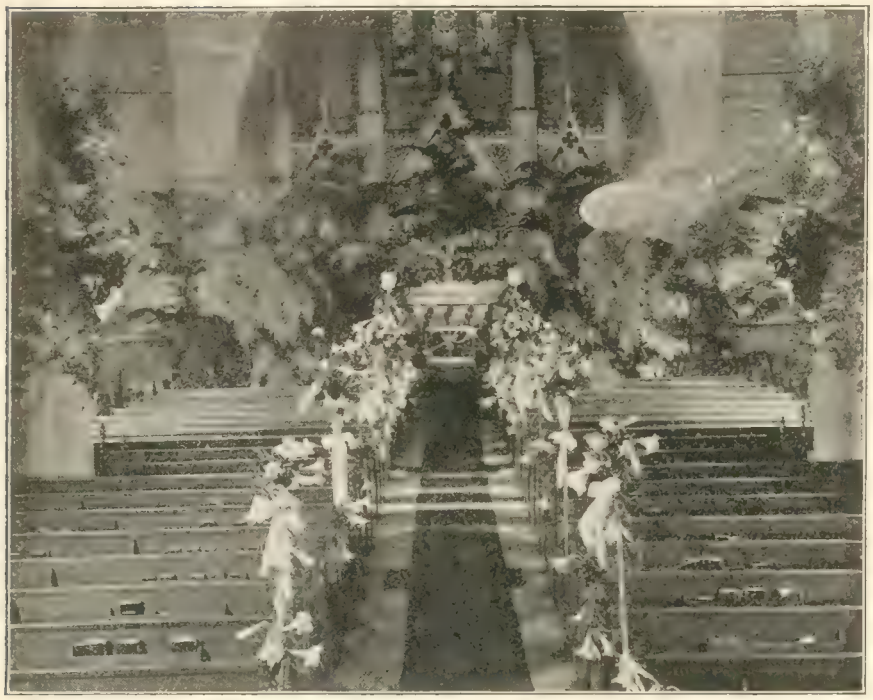
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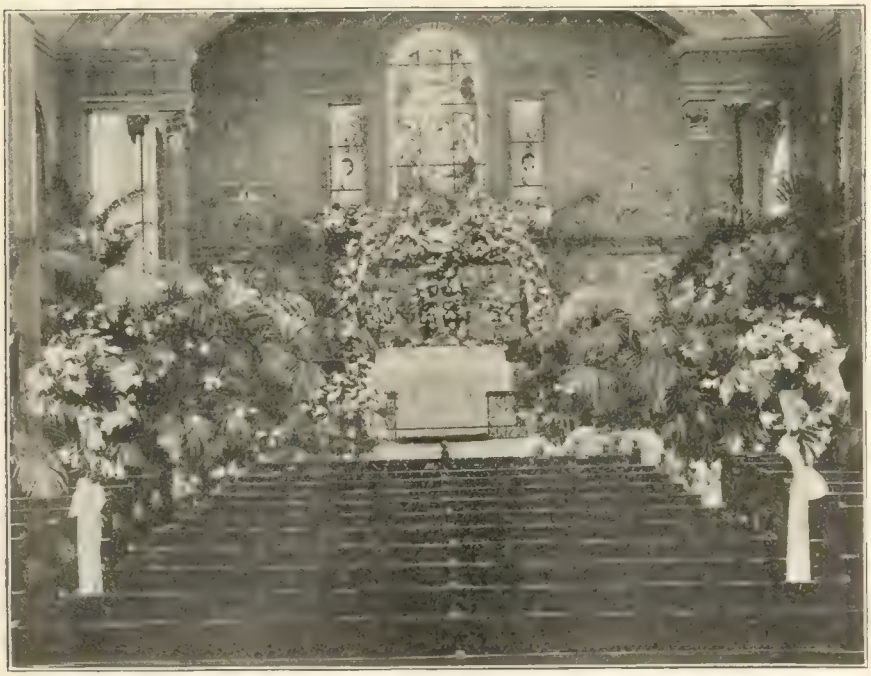
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TWO NOTABLE WEDDING DECORATIONS.



MRS. FRANCES BROOKS' WEDDING, ST. THOMAS CHURCH, WASHINGTON

The photographs reproduced in the accompanying engravings show two recent church wedding decorations in Washington, D. C. They were the work of Gude Brothers Co., and both were magnificent.



MCKINLEY-BENNETT WEDDING, ST. JOHNS CHURCH, WASHINGTON

WASHINGTON NOTES.

Gude Bros. Co., furnished the decorations for the horse show held during the week. Here large quantities of scarlet geraniums, Rambler roses, rhododendrons and cedar trees were used, the whole present a very beautiful effect. Due to this event all the stores are receiving a share in the sale of corsage bouquets and cut flowers.

Announcement has been made that the Brookland Brotherhood and the Brookland Rose Guild of ladies will again hold the annual rose show in the Masonic Temple, at Brookland, D. C., on May 26 and 27. This is one of the events of the season and is largely patronized. Prizes and ribbons are bestowed upon winners in all classes.

The resignation of Beverly T. Galloway, as assistant secretary of Agriculture, is expected following the tendering to him of an offer to become dean of the agricultural college of Cornell University for it is believed that he will accept the offer. Dr. Galloway has

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Prices are for lots of 1000 Assorted Letters



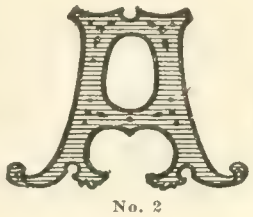
No. 1

No. 1.

Gold Paper Letters, $3.50 per 1000.

Purple Paper Letters, $4.50 per 1000.

Mother of Pearl Letters, $4.00 per 1000.



No. 2

No. 2.

Gold Letters, $5.50 per 1000.



No. 4

No. 4.

Gold Paper Letters, $2.50 per 1000.

Purple Paper Letters, $3.50 per 1000.

H. BAYERSDORFER & CO., 1129 Arch Street PHILADELPHIA, PA.

been connected with the Department of Agriculture for the past twenty-seven years, previous to which time he was at the University of Missouri. He joined the department to study the diseases of plants and when former Secretary of Agriculture Wilson took charge he commissioned him to organize the Bureau of Plant Industry. Mr Galloway is a member of the Florists' Club of Washington and during his long residence here he has made a host of friends.

PHILADELPHIA NOTES.

The annual outing of the Florists' Club will be held early in June. John C. Gracy is the chairman of the committee with an able staff of assistants and judging from the success of last year's outing under Mr. Gracey's superintendence we are all looking forward to another glorious good time this year.

James Brown, Coatesville, Pa., says he will give up his retail department shortly and devote himself entirely to the growing end. He says the reason for this is that it is too much of a strain on Mrs. Brown, who has been the power behind the throne. We suggested that he get another wife; but he pooh-poohed that and said that no "old bach" was competent to advise on such a subject. The idea! As Prof. Elson said: "He is so very gay and sporty, you'd hardly take him to be forty." We are no "tin can on the dump of life" yet.

W. Atlee Burpee and his son David will sail for Naples on May 16, from Boston on the S. S. Cedric. They will visit the chief continental seed growing centers and will be in London in time for the sweet pea show in July. Howard M. Earl, General Manager of Burpee's will make the Atlantic-Pacific inspection trip this year and will reach California probably about June 10. A. E. Brown, treasurer, sails on the S. S. Minnesota, June 27. Mrs. Burpee and W. Atlee, Jr., will sail on the George Washington, June 13. Bon voyage and safe return to one and all.

CHICAGO NOTES.

A new store, known as the Diversey Flower Shop, is at 2843 Diversey avenue with D. F. Hayes, proprietor.

Chas. McKellar is moving to his new home at Niles Center. Both Mr. and Mrs. McKellar have a longing for life in the country.

Chas. Maier has moved into a better store and more desirable location at 4106 Armitage avenue. He was formerly at 3262 Armitage avenue.

A severe electrical storm passed over the city Sunday night. It was accompanied by hail and rain, and as a consequence many greenhouses have cracked glass. No serious damage is reported.

The wedding of George Goebel and Miss Ella Schaeffer will take place in June. George is one of the best known men in the market and a general favorite, having the handling of a large part of the express shipments. Miss Schaeffer has resigned her position at Bassett & Washburn's office.

Mrs. I. Manusos, formerly of Chicago and now of Mason City, Iowa, arrived here on Saturday for a visit with friends and was immediately stricken with appendicitis and a successful operation was performed at University Hospital. Mr. Manusos, who was formerly in the retail florists' business here, arrived Sunday.

Mrs. H. C. Blewitt, of Desplaines, Ill., was attacked by a muscular difficulty of the knee, three weeks ago, and is still unable to walk. Mr. Blewitt, who makes a specialty of snapdragons and brings in as fine a quality as is found in the market, says it does not pay in the condition that the market has been in this spring.

Peter Reinberg and family are now occupying their new home at Sheridan Road and Hollywood Ave. It is more than likely that they will miss their old neighbors, the greenhouses, even though they would not want to return to them. Along with the other seven members of the Chicago School Board, Peter Reinberg was sentenced on May 4 to thirty days in jail for contempt of court.

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Making Flower Selling Refrigerators for Stores and Greenhouses. Perfect Refrigeration Ice Economy. Ask for Catalog X3.

United Refrigerator and Ice Machine Co., Kenosha, Wis.



BEAUTIES

$1.00 to $3.00 per dozen

Beauties are plentiful and of splendid quality. Mostly specials, stems 36 inches and over and they are the best for size and color,

GREEN LEUCOTHOES, LONG, 1000, $6.50
GREEN LEUCOTHOES, 12 IN. LONG, 1000, $3.00

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Boston Florist Letter Co.

66 PEARL ST. BOSTON
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Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

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POEHLMANN BROS. CO.

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If interested, send us your name and address for our weekly price list.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI April 27			CHICAGO May 5			BUFFALO May 5			PITTSBURG April 20		
Am. Beauty, Special	25.00	to	30.00	25.00	to	35.00	.....	to	25.00	20.00	to	30.00
" " Fancy and Extra	20.00	to	25.00	15.00	to	25.00	15.00	to	20.00	12.00	to	15.00
" " No. 1	10.00	to	15.00	12.00	to	20.00	8.00	to	15.00	6.00	to	10.00
Killarney, Extra	5.00	to	8.00	6.00	to	8.00	6.00	to	8.00	6.00	to	10.00
" Ordinary	2.00	to	4.00	2.00	to	5.00	3.00	to	5.00	2.00	to	4.00
Richmond, Hillingdon, Extra	6.00	to	8.00	6.00	to	12.00	6.00	to	8.00	6.00	to	10.00
" " Ordinary	3.00	to	6.00	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00
Maryland,,Ward,Taft,Sunburst, Ex.	6.00	to	8.00	6.00	to	10.00	6.00	to	8.00	6.00	to	10.00
" " " Ordinary	4.00	to	6.00	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00
Russell, Shawyer	.....	to	.....	.....	to	.....	...	to	.....	.....	to	.....
Carnations, Fancy	2.00	to	3.00	3.00	to	4.00	2.25	to	3.00	.....	to	3.00
" Ordinary	1.50	to	2.00	1.50	to	2.00	1.50	to	2.00	1.00	to	2.00
Cattleyas	40.00	to	50.00	40.00	to	50.00	40.00	to	50.00	60.00	to	75.00
Lilies, Longiflorum	8.00	to	12.00	8.00	to	10.00	8.00	to	10.00	6.00	to	12.00
Callas	6.00	to	8.00	5.00	to	8.00	8.00	to	10.00	.....	to	8.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Wallflower	.....	to	...	.....	to	.....	.....	to	.....	1.00	to	2.00
Snapdragon	4.00	to	8.00	5.00	to	8.00	4.00	to	7.00	6.00	to	8.00
Daffodils	1.00	to	2.00	1.00	to	2.00	1.00	to	2.00	1.00	to	3.00
Tulips	2.00	to	3.00	1.00	to	2.00	1.00	to	2.00	1.00	to	3.00
Violets	.....	to	...	.50	to	.75	.50	to	.60	.50	to	.75
Pansies	.75	to	1.00	1.00	to	1.25	.30	to	.50	.50	to	1.00
Mignonette	4.00	to	6.00	5.00	to	8.00	2.00	to	4.00	4.00	to	6.00
Daises, white and yellow	1.00	to	1.50	1.00	to	1.25	1.00	to	1.50	2.00	to	4.00
Sweet Peas	.50	to	1.00	.50	to	1.00	.50	to	1.00	.50	to	1.25
Lilacs, per bunch	.....	to	.....	.25	to	.50	.....	to	...	.....	to	.....
Gardenias	25.00	to	40.00	25.00	to	30.00	.....	to	.....	20.00	to	30.00
Adiantum	1.00	to	1.50	1.00	to	1.25	.50	to	1.25	.....	to	1.25
Smilax	.....	to	15.00	12.00	to	15.00	.....	to	15.00	.....	to	20.00
Asparagus Plumosus, Strings (100)	40.00	to	50.00	40.00	to	60.00	40.00	to	60.00	40.00	to	50.00
" & Spren. (100 bchs.)	25.00	to	50.00	35.00	to	50.00	35.00	to	50.00	25.00	to	50.00

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30 East Randolph Street, CHICAGO, ILL.

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Consignments Solicited

Hardy Fancy Fern Our Specialty

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Flower Market Reports

BOSTON The general trend of activity in cut flower circles is upward and the situation has cleared considerably as compared with that recorded last week. The demand is somewhat sluggish still, but the supply is lighter and better prices are obtainable without protest on the part of the buyer. The surplus of lilies has disappeared. Roses are finding a pretty free outlet and no overstock is in evidence. Carnations are very strong and prices will undoubtedly be much higher at the end of the week, on white varieties, these seeming to have most of the call. Snapdragon moves very slowly and this is also true of sweet peas, which are heavily overstocked. Lily of the valley is doing first class. Yellow daisies, if large, are bringing the best price on record. Spanish iris enjoys a rapid sale at prices from $4 to $8 per 100.

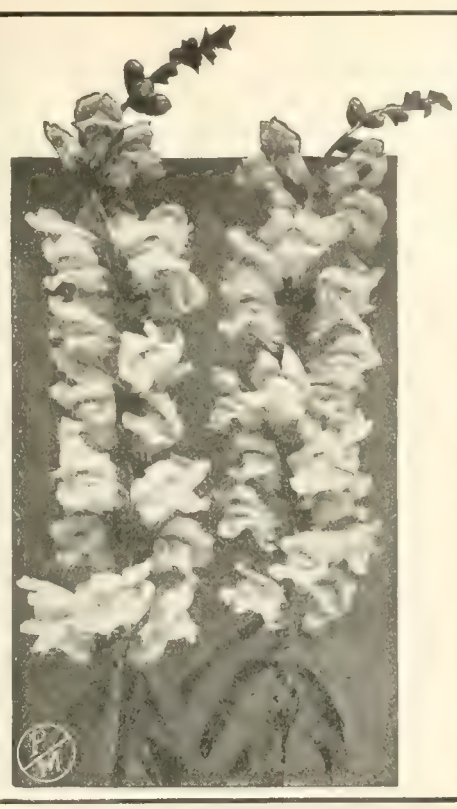
BUFFALO The long looked for reaction finally came during last week and new life appeared in the market on Wednesday and continued throughout with a good ending on Saturday. The market was practically cleaned up on about everything. Carnation receipts have shortened up considerable, also the rose situation is better and they cleaned up on the short and medium grades. Other stock generally has shared in the demand. Heavy bookings of white carnations have already been taken for Mothers' Day.

CHICAGO The first days in May found an accumulation of not very good stock and sales slow. The flowers could not be moved fast enough at any price. But with the return of colder weather, on Thursday, the 30th, a change for the better came over the market. Quality showed improvement and quantity lessened and the week ended with ice boxes cleaned up. The shortage in carnations continues and the best ones are quickly bought up at top prices. Roses are coming into their own again and buyers paid the price of the wholesalers and not what they pleased on Saturday. Richmonds are scarce, as old stock is being thrown out, and the best ones sold for $12 Saturday. Killarneys are more plentiful. If the Easter lilies could have been kept indefinitely they would sell now, but those left from Easter are too far gone and there are not enough cut now to meet the demand. Snapdragon is seen in all lengths and size of bloom and a fair amount is moved each day. Sweet peas remain rather in excess of demand. Out-of-door tulips are now coming and they seem to be taking well with buyers. Advance orders for Mothers' Day are coming in rapidly and a heavy shipping trade is anticipated.

CINCINNATI At the close of last week the greenhouse flowers had to meet the competition of outdoor lilacs and bulbous stock. The lilacs are very pretty this year and have met with a very good call. Rain the early part of this week, however, will probably put them out of commission. Outdoor bulbous stock receipts, particularly of tulips, will probably continue for a fortnight or more. The general supply in the market continues abundant and prices are very low, but under the pressure of heavy buying on Monday of this week they advanced slightly. The call from out of town is good. The rose supply is good, and sufficient for requirements. The quantity of carnations coming in is about the same as at the last writing. Outdoor lily of the valley are added to the indoor stock and prove a very welcome addition this week, in particular when very many are being utilized in corsages for the fair patrons of the May Festival. Orchids are selling well. The glut of Easter lilies and callas continues. Antirrhinums sell slowly. Sweet pea receipts are not very large. Green goods business is good.

NEW YORK Trade conditions are somewhat better than they were last week, though the stormy Tuesday caused a cessation of advancing prices. Stock of all kinds is exceptionally good and it is expected there will now be good business until the close of the season. Carnations are especially fine, demand

(Continued on page 715)



SNAPDRAGON

An indispensable flower for every up-to-date store. We have a splendid supply of the choicest varieties, all the best shades, including that beautiful delicate pink that has been such a wonderful seller with us.

Special	per doz.	$1.00
Fancy	"	.75
First	"	.50
Delicate Pink	"	1.50

CATTLEYAS. $6.00 per doz.

VALLEY. Special, $4.00 per 100. Extra, $3.00 per 100.

GARDENIAS. Special, $3.00 per doz.; $20.00 per 100. Fancy, $2.00 per doz.; $12.50 per 100.

EVERYTHING IN RIBBONS. We carry one of the largest and most varied stocks of Ribbons pertaining to the florist business, of any house in the country. If you have not received one of our new catalogues, advise us at once and we will mail you one immediately.

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Washington: 1216 H. St., N. W.

Baltimore: Franklin and St. Paul Sts.

WHOLESALE FLOWER MARKETS — TRADE PRICES - Per 100 TO DEALERS ONLY

	BOSTON May 7			ST. LOUIS April 27			PHILA. April 27		
Roses									
Am. Beauty, Special	20.00	to	25.00	20.00	to	25.00	15.00	to	17.50
" " Fancy and Extra	10.00	to	20.00	15.00	to	18.00	8.00	to	10.00
" " No. 1	4.00	to	8.00	8.00	to	10.00	.....	to	5.00
Killarney, Extra	6.00	to	10.00	5.00	to	6.00	.....	to	6.00
" Ordinary	2.00	to	4.00	2.00	to	3.00	2.00	to	4.00
Richmond, Hillingdon, Extra	6.00	to	12.00	5.00	to	6.00	6.00	to	8.00
" " Ordinary	2.00	to	4.00	2.00	to	3.00	3.00	to	5.00
Maryland, Ward, Taft, Sunburst, Extra	4.00	to	10.00	5.00	to	6.00	5.00	to	6.00
" " " " Ordinary	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
Russell, Shawyer	2.00	to	10.00	.....	to	.....	5.00	to	12.00
Carnations, Fancy	3.00	to	4.00	1.50	to	2.00	2.50	to	3.00
" Ordinary	1.00	to	1.00	.75	to	1.00	1.00	to	1.50
Cattleyas	35.00	to	40.00	40.00	to	50.00	40.00	to	50.00
Lilies, Longiflorum	3.00	to	5.00	6.00	to	8.00	6.00	to	10.00
Callas	4.00	to	6.00	6.00	to	8.00	.....	to	1.50
Lily of the Valley	2.00	to	3.00	3.00	to	4.00	2.00	to	3.50
Wallflower	1.00	to	2.00	.....	to	.....	1.00	to	2.00
Snapdragon	2.00	to	6.00	3.00	to	4.00	3.00	to	5.00
Daffodils	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
Tulips	1.00	to	2.00	2.00	to	3.00	.....	to	.....
Violets	.....	to	.....	.20	to	.35	.....	to	.....
Pansies	.25	to	.50	1.00	to	2.00	.25	to	.50
Mignonette	2.00	to	4.00	4.00	to	5.00	.....	to	.....
Daisies, white and yellow	1.00	to	3.00	1.00	to	2.00	.50	to	1.00
Sweet Peas	.20	to	.75	.25	to	.35	.50	to	1.00
Lilacs, per bunch	.....	to	.....	10	to	.15	.....	to	.....
Gardenias	6.00	to	12.00	.....	to	.....	4.00	to	12.00
Adiantum	.75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	12.00	to	15.00	.....	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	15.00	to	25.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 2 1914	First Half of Week beginning May 4 1914
American Beauty, Special	15.00 to 25.00	15.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 15.00
" " No. 1	2.00 to 8.00	5.00 to 10.00
Killarney, Extra	3.00 to 4.00	4.00 to 6.00
" Ordinary	1.00 to 2.00	2.00 to 4.00
Richmond, Hillingdon, Extra	3.00 to 6.00	4.00 to 6.00
" Ordinary	1.00 to 2.00	2.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	3.00 to 6.00	4.00 to 6.00
" " Ordinary	1.00 to 2.00	2.00 to 4.00
Russell, Shawyer	3.00 to 6.00	2.00 to 6.00
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 4.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 713)

brisk, with the prospect of higher prices towards the end of the week. Lily of the valley is selling well and is more consistent as far as regular price is concerned. The hot spell has rushed in quantities of outdoor tulips and daffodils and the supply of these will soon be over. Lilies are once more getting in demand and the best are clearing out nicely at prices quoted in market report. There are still shipments of violets arriving, selling at $1.50 to $2.00 per 1000. Roses have shortened up in supply and $10 per 1000 is about the lowest quotation up to 6c. for the novelties and better grades of some of the standard varieties. Carnations arriving from Long Island, as a general rule, seem to be of better quality than those from other sections of the country. Quantities of cherry and peach blossoms have been used in recent decorations, which fact does not help the wholesale flower markets so you'd notice it. There are some fine gladioli. Sweet peas are received in enormous quantities and all grades of quality.

PHILADELPHIA The tone of the market last week was considerably improved over the previous two weeks and while there was no great advance in quotations the final results were better. There was a large supply of everything and prices ruled low. The excess of shipments to demand, however, was not so great and with the fine weather, the week end business was better, so that there were no such enormous sacrifices as we have been having. American Beauty roses are not so plentiful and if anything the demand has been better. Other roses are very plentiful. Russells are fine now and sell well. This newcomer has all the earmarks of taking rank as a great warm weather rose in addition to its other good qualities. In the orchid market cattleya Mossiae now rules—the Schroederae crop being entirely cut out. There are also some nice Dendrobiums to be had in both the pink and the white forms of nobile. The gardenia demand is rather half-hearted, while snapdragon is very plentiful. The retailers are pushing it as they can make such a good showing for little money. Lilies are still far too plentiful and below normal as to price. The first shipment of peonies came in on Monday and were quickly picked up. Outdoor lilac is to be had in quantity, especially the lavender—there is very little white to be seen. The big wholesalers have been at pains to advise customers to keep off white carnations for Mothers' Day. We trust it will bear good fruit, but it is hard to stop a big wheel after it has been started in a wrong direction.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 2 1914	First Half of Week beginning May 4 1914
Cattleyas	20.00 to 35.00	15.00 to 25.00
Lilies, Longiflorum	1.00 to 3.00	3.00 to 5.00
Callas	3.00 to 6.00	4.00 to 6.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Wallflower	1.00 to 2.00	.75 to 1.00
Snapdragon	1.00 to 4.00	2.00 to 4.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Violets	.25 to .50	.15 to .25
Pansies	.25 to .50	.15 to .25
Mignonette	.50 to 4.00	1.50 to 3.00
Daises, white and yellow	.50 to 1.00	.50 to 1.00
Sweet Peas (per 100 bunches)	6.00 to 8.00	4.00 to 8.00
Lilacs (per bunch) Southern	.. .. to .33	.25 to .35
Gardenias	2.00 to 15.00	2.00 to 16.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	16.00 to 25.00	15.00 to 25.00
Asparagus Plumosus, strings (per 100)	20.00 to 50.00	35.00 to 50.00
" & Spren (100 bunches)	15.00 to 50.00	15.00 to 25.00

WASHINGTON There are far more flowers on the market at the present time than the demand can possibly take care of and prices have dropped clear out of sight. Business has been comparatively good, but almost without profit for the wholesalers and growers are practically accepting the retailers' bids for the stock and the latter find it hard to get anything like a price from the consumers. The supply of roses and carnations is so great that it is said that tens of thousands of these are being thrown away daily. The call is almost entirely for spring blossoms at the present time and lilacs and dogwood are very popular. These are supplanting all greenhouse stock. As previously reported, the present Mexican uncertainty continues to have a marked ill effect on business in general, more especially on that of flowers, for society folks are cancelling a number of entertainments of various sorts. A decrease in the number of street vendors of flowers was very gratifying to the store men who hope that some day this sort of competition will be entirely done away with. During the past week a large number of arrests were made of florists doing business without licenses, many of these men being of the street vending type and all unknown to the HORTICULTURE correspondent. The police are proving unusually vigilant along this score, orders having been given them to see that all so required are properly supplied with licenses.

ST. LOUIS The market is dull and very much overcrowded with everything in season. There is a big glut of sweet peas, carnations, callas and roses, prices suffering greatly in all classes. Even prime stock is selling lower than ever before. Weather conditions are favorable to bringing out blooms of all kinds of out-door stock. Smilax and all other green sell well, ferns are scarce and up in price.

VISITORS' REGISTER.

Chicago—Mr. and Mrs. J. Manusos, Mason City, Ia.; Wm. Jaap, of the Lester Park Greenhouses, Duluth, Minn.; Arthur Schutz, Hammond, Ind.; E. Everett, Madison, Wis.

St. Louis: Guy Reyburn, of Henderson & Co., and Fred Lembke, of Barnard Co., Chicago; J. J. Karins, of Dreer's, and F. J. Farney, of Rice Co., Philadelphia; Charles Ford and Sam Seligman, New York.

Boston—H. C. Neubrand, representing A. N. Pierson, Inc., Cromwell, Conn.; A. E. Thatcher, Bar Harbor, Me.; F. R. Pierson, Tarrytown, N. Y.; L. J. Reuter, Westerly, R. I.; Wm. Plumb, New York, Superintendent Floriculture, Panama-Pacific Exposition; H. Langeler and W. A. Philippo, representing M. Van Waveren & Son, Hilegom, Holland; G. L. Freeman, Fall River, Mass.

Cincinnati—Peter Weiland, New Castle, Ind.; Martin Reukauf, representing H. Bayersdorfer & Co., Philadelphia, Pa.; Sam Seligman, New York, and Wm. Sanders, representing Poehlmann Bros. Co., Chicago. Heavy buyers in this market last week from nearby points were J. F. Herdegen, Aurora, Ind.; Walter Gray, Hamilton, Ohio; Lodder's Sons, Hamilton, Ohio and Fred Ruff, Lawrenceburg, Ind.

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
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Telephone Main 58

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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

J. E. Felthousen, Schenectady, N. Y.
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AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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Geo. N. Barrie, Brookline, Mass.

BAY TREES

McHutchison & Co., New York.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York.
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BAY TREES—Standard and Pyramids. All sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

R. Vincent, Jr., & Sons Co., White Marsh, Md.
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Breck-Robinson Nurseries, Lexington, Mass.
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John McKenzie, No. Cambridge, Mass.
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A. N. Pierson, Inc., Cromwell, Conn.
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Geraniums: Nutt, Ricard, Poitevine, Viaud, Jaulin, La Favorite; Cannas; Aus- 3½ in., $6.00 per 100. Blue Ageratum, Howard's Star Petunias, double Alyssum, white Marguerites, German Ivy, Salvia Bonfire, Coleus Verschaffelttii, G. Bedder, Queen Victoria, Firebrand, 3 in., $5.00 per 100. Achyranthes Lindenii, Coleus (4 colors), Dusty Miller, Alternanthera (red, yellow), 2½ in., $3.00 per 100. Dracaena indivisa, extra heavy, 6 in., $40.00 per 100. Vinca variegata, 3½ in., $8.00 per 100. Cash. F. SOKOL, Worcester, Mass.

BEGONIAS

Storrs & Harrison Co., Painesville, O.
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BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
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King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
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Hitchings & Co., New York City.
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Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD TREES

Bobbink & Atkins, Rutherford, N. J.
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Michell's Seed House, Philadelphia, Pa.
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Ralph M. Ward & Co., New York City.
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John Lewis Childs, Flowerfield, L. I., N. Y.
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Lilium Giganteum.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

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F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Chrysanthemum Novelties for 1914.
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Chas. H. Totty, Madison, N. J.
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Wood Bros., Fishkill, N. Y.
Chrysanthemums Rooted Cuttings.
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CHRYSANTHEMUM ROOTED CUTTINGS Alice Salomon, $7.00 per 100, $60.00 per 1000; Chas. Razer, M. Bonnaffon, M. Dean, Lynnwood Hall, Chrysolora and other leading market sorts, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c., $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

SINGLE CHRYSANTHEMUMS
from 2¼-in. pots. 100

Yellow Mensa	$10.00
Mensa. Finest White	5.00
Ceila. Lemon Yellow	5.00
Cha. Kingsley. Fine Yellow	5.00
Mary Pope. Large Pink	5.00
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Mary Richardson. Salmon	4.00
Mrs. Heneage. Yellow Anemone	4.00
Pompons. Lula, white, Souvenir d'Or, orange and bronze	3.00

FRANK P. PUTNAM,
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COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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CYCLAMENS from 5 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

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John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—best cut-flower varieties and novelties. Send your list of wants to the largest Dahlia grower in the world. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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DAHLIAS—Continued

Field clumps, divided, good sound stock; assortment of 10 commercial kinds for cut-flowers, equal amount of each, labeled true to name, $1.50 per 100, $12.00 per 1000; mixture of White and Light Pink for Florists' use, $1.25 per 100, $10.00 per 1000; mixture of all colors and types, $1.00 per 100, $8.00 per 1000. We guarantee satisfaction—25 at 100 and 250 at 1000 rate. Trade List of Dahlias on Application. MANNETTO HILL NURSERIES, W. A. Finger, Prop., Hicksville, L. I., N. Y.

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Geraniums—S. A. Nutt, extra strong, branched, 3-in., $3.00 per 100; 4-in., branched in bud and bloom, $5.00 per 100. Cash with order, please. J. M. & C. L. BACKUS, Groton, Tomp. Co., N. Y.

GLADIOLUS

Michell's Seed House, Philadelphia, Pa.
Gladiolus Princeps.

John Lewis Childs, Flowerfield, N. Y.
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J. M. Thorburn & Co., New York City.
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Groff's mixed, light colors, 1-in., $5.00 per 1000. Groff's hybrids, mixed, all colors, 1-in., $5.00 per 1000. C. PEIRCE, Dighton, Mass.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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Red Devil Glass Cutter.
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H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

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Florists' Hail Asso. of America.
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Henry A. Dreer, Inc., Philadelphia, Pa.
Everything in Hardy Perennials.

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Plantlife.
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Kentucky Tobacco Product Co., Louisville, Ky.
"Nico-Fume."
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IRIS

Eastern Nurseries, Jamaica Plain, Mass.
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IRRIGATION SPRINKLER

J. P. Campbell, Jacksonville, Fla.
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IVY

German Ivy, 2 to 2½ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

KENTIAS

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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.
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LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

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LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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NATIONAL NURSERYMAN

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Otto Heinecken, New York City.
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PANSY PLANTS

125,000 large, stocky (September transplanted), field-grown, blooming pansy plants; Henry Mette's strain, all salable stock, satisfaction guaranteed, $1.00 per 100, $10.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

500,000 field-grown Pansies in bud and bloom; grown from seed of my own raising and is the result of twenty years' careful breeding. $1.25 per 100; $10.00 per 1000. Cash, please. LEONARD COUSINS, JR., Concord Jct., Mass.

PEONIES.

J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHLOX

Eastern Nurseries, Jamaica Plain, Mass.
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PHOENIX

Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

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Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

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"Riverton Special."

POCKET PRUNER

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Breck-Robinson Nurseries, Lexington, Mass.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

Salvias—Bonfire, strong, healthy plants, 2-in. pots, $2.00 per 100; 3-in. pots, $3.00 per 100. J. HENRY BARTRAM, Lansdowne, Pa.

SEED GROWERS

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SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED

Arthur T. Boddington, New York City.
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VEGETABLE PLANTS

Vegetable Plants, Tomatoes, Cabbage, Cauliflower, Celery, Egg Plant, Cheshire pigs, and Guernsey cattle, blooded stock. Write for pamphlet. GIRDLE RIDGE, Farm Dept., Katonah, N. Y.

Celery Plants: Golden Self Blanching (French Strain), fine plants, ready now, $2.50 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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In writing to Advertisers kindly mention Horticulture

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—Assistant to gardener. Man who understands bedding out. State wages desired. Address South Shore Greenhouses, Cohasset, Mass.

WANTED—First-class grower, who can grow cyclamen, begonias and chrysanthemums, Christmas and Easter pot plants. State wages expected. Must be Protestant and have first-class references as to ability, etc. Address G. B., care HORTICULTURE.

SITUATIONS WANTED

DO YOU NEED FARM HELP?

We have many able-bodied young men, both with and without farming experience, who wish to work on farms. If you need a good, intelligent, sober man, write for an order blank. Ours is a philanthropic organization and we make no charge to employer or employee. Our object is to encourage farming among Jews.

THE JEWISH AGRICULTURAL SOCIETY,
174 Second Avenue, New York City.

SITUATION WANTED by practical florist and gardener; good grower; capable of taking full charge of private or commercial place. Age 32; 15 years' experience. References as to ability and character. Address W. R., care of HORTICULTURE.

SITUATION WANTED—Gardener wishes situation on gentleman's estate. Fruit, vegetables and general greenhouse stock and outdoor gardening. First-class references. A. B. C., 1326 Center street, Newton Center, Mass.

SITUATION WANTED as gardener, inside or out, on private estate. Life experience—fruit, chrysanthemums, orchids, etc. First-class references. Age, 38. English. Address "P," care HORTICULTURE.

FOR SALE

Prosperous Establishment For Sale

One of the best commercial establishments around Boston. Ten houses fully stocked. Will turn over nice wholesale trade to buyer. Easy terms. Going into other business.

JOHN McKENZIE

North Cambridge, - - Mass.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—A nice residence; 9 rooms; having all latest improvements—city water, steam heat, electricity; two wells; three greenhouses; across from a Cemetery. Very suitable for a florist. Address J. P. THEVE, Norwich, Conn.

FOR SALE—Retail and wholesale florist business, 3 greenhouses on leased land; 5 years to run with option to buy, houses were built up last year; good reason for selling; just step in and do business. Apply to PETERSEN, 79 Central Ave., Flushing, N. Y.

MISCELLANEOUS

WANTED—1600 'mums and 1200 carnations. Standard varieties. South Shore Greenhouses, Cohasset, Mass.

WANTED—To lease, with privilege to buy, retail greenhouses. State full particulars. Box 10, Annandale, New York.

Springfield, Mass.—Two acres of ground in Forest Park are being prepared for a rose garden.

PUBLICATIONS RECEIVED.

The Transactions of the Massachusetts Horticultural Society for the year 1913, Part II, is a record of the meetings of the Board of Trustees, reports of judges and awards at the various exhibitions of the year, also of the various officers and regular committees for 1913. There is a full page portrait of Hydrangea Sargentiana, one of E. H. Wilson's Chinese collections.

Report of the Board of Park Commissioners of Seattle, Washington—This is the 10th annual report of the Seattle Park System. Its date and statistics are good evidence that Seattle is alive to the importance of public reservations, when a city is young. An expenditure account of $364,060 for improvements and maintenance indicates a liberality most commendable and the details of this report shows that the money has been wisely expended. J. W. Thompson is superintendent of the Seattle Park system.

The Fiddling Girl: The Story of Virginia Hammond. By Daisy Rhodes Campbell, and illustrated by John Goss. This is a charming story, published by The Page Company, Boston, and, like all the literature sent out by this house, draws its interest and fascination for the reader from the clean sentiment and sunshiny human characters it portrays. It is dedicated by the author "To the Memory of My Best Friend, My Mother." It will be a most acceptable "Mother's Day" gift and cannot fail to engross and delight the lady who is so fortunate as to be thus remembered by a friend.

Botany, by E. Brucker. Another addition to the useful "Threshold of Science" series published by Double-Day, Page & Co., to meet the need for a better popular knowledge of the elementary laws of science, not only by the child who lives in a wonderland of discovery, but of people of more mature years, is the aim of this series of monographs on the various branches of science. "Botany" is a book of 186 pages profusely illustrated with woodcuts and admirably adapted to its purpose and the best in its class we have seen. There are 42 chapters illustrated with 235 cuts.

The 60th Annual Report of the Massachusetts State Board of Agriculture and 25th Annual Report of the Massachusetts State Experiment Station has come to hand rather late, but is a volume well worth the waiting for. It is a book of 660 pages well filled with useful matter presented in practical form. Particularly so are the chapters on poultry and egg production, small fruits and berries, market gardening, report of state ornithologist, report of state forester, the influence of light on plant development and shade tree troubles. There are many fine full page plates illustrative of the text matter and, as a whole, the document impresses us as an advance over its predecessors in many respects.

On Old World Highways. A Book of Motor Rambles in France, Germany and Britain, by Thomas D. Murphy. Published by The Page Company, Boston. A superb product of the best combined effort of author and publisher. There are 40 duogravures from photographs and 16 reproductions in colors from original paintings by eminent artists, also maps showing the routes of the author, the latter particularly valuable to the reader in following the text. To particularize the interesting features of this volume would be practically to repeat it entire, for every one of its 400 pages is alive with interest, and the author's style of narrative is most felicitous. The greater bulk of the volume deals with historic and picturesque England, Wales and Scotland and the record of the pilgrimage from Land's End to John O'Groat's fills the reader with a wistful longing to go and do likewise.

Zurich, Switzerland—Doctor Kleiber, a chemist in the service of the Swiss government, analyzed during a recent visit to Pompeii and Herculaneum the Vesuvian ashes and debris, and found that they contain large percentages of potash, suitable for the manufacture of fertilizer. The potash syndicate, established by the German government, has almost a monopoly of potash. The Italian government, learning of Doctor Kleiber's discoveries, has communicated with him upon the possibility of developing potash mines in the vicinity of Vesuvius. He is looking into the matter The largest market outside Germany for potash fertilizer is the United States.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

Any individual or firm who would be interested in handling manure from a dairy herd, dried to a 12% moisture basis—nothing of value lost from either the solid or liquid manure, the product analyzing as follows:—

Nitrogen	3 to 3½%
Phosphoric Acid	.8 to 1%
Potassium Oxide	2.25 to 3%
Organic Matter	75 to 80%

Please communicate with

MILLWOOD FARM
FRAMINGHAM - - . MASS.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.



Ram's Head Guano

100 lbs. $2.00

WM. ELLIOTT & SONS

42 Vesey St., New York

BIG BLOOMS

and Strong Plants guaranteed. Mix DAVIDGE'S SPECIAL PHOSPHORUS with planting and potting soil. After roots are made, top dress little and often. $2.00 per 100 lbs. Cash with order.

HUDSON CARBON CO., Ballston Spa, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

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Chicago, Ill.—Scott & Grant, 14th street and 60th avenue, three houses, each 20x115, Foley construction.

FIRES.

New Bedford, Mass.—Starting, it is believed, from an over-heated furnace in the basement, fire did at least $300 damage to the home and greenhouses of Richard Nofftz on Kempton street, on Saturday night, May 2. The loss is covered by insurance.

Lansdale, Pa.—Early Saturday morning, April 25, W. Sturzebecker discovered a fire in the outbuildings of his home which threatened to destroy all his buildings. Through prompt action of himself and help and also the Lansdale Fire Company, he was enabled to save a good share of his nursery buildings, but at the same time his loss is considerable, a conservative estimate placing the loss at $2000 and with only $800 insurance. Horse, barn and apple orchard were included in the destruction.

Lincoln, Neb.—That greenhouses contain merchandise, not growing crops, and are therefore assessable as such, is the ruling of Secretary Seymour of the state assessment board. Numerous assessors had complained to him that greenhouse proprietors had attempted to avoid assessment by claiming the same immunities as farmers, on growing crops.

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If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
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Does not fold up or come apart.
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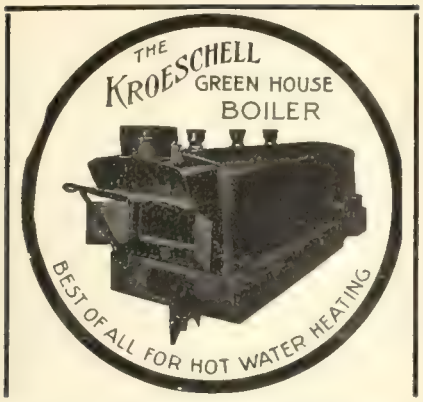


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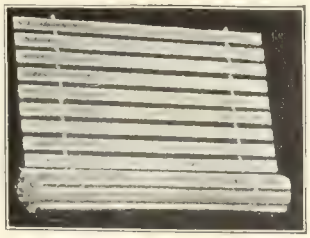
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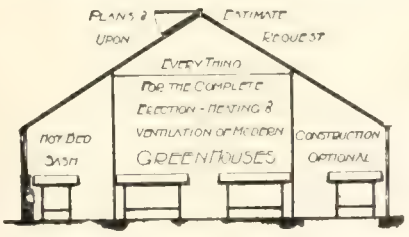
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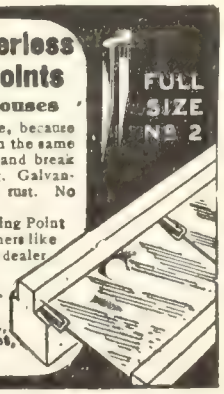
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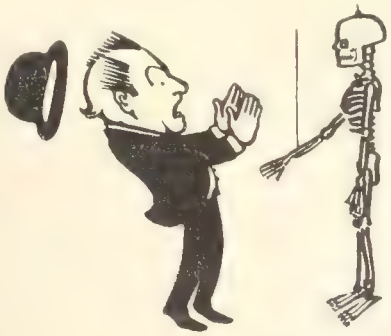
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Vol. XIX
No. 20
MAY 16,
1914

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Danton (Medium). Scarlet, pure red eye.
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H. O. Wijers (Tall). White, with bright crimson-carmine eye.
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Rynstrom. An improved form of the popular variety Pantheon; fine for massing, of a Paul Neyron Rose color.
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Bedding Plants and Roses

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Amaryllis

Now that the flowering season of hybrid amaryllis is passed they can be got together and placed in a frame. It would be well to plunge the pots up to their rims. Where the drainage is good they will not require any repotting, but should have liquid manure once a week, and as the roots become active they can have it twice a week. Some labor under the opinion that the amaryllis under any kind of care will flower all right. This is utterly absurd. See that they are not stinted for water at the roots while they are making their growth. Give them a good syringing every day as this helps the bulbs to regain their strength. If you do not help to strengthen them as prescribed you will have a failure when their flowering time comes around. A little time and care spent with these splendid plants will always pay.

Growing Aquatics

If a pond, stream or small pool should not be available, nymphæas can be successfully grown in tanks, vats or a hogshead sunk into the ground. The best way to start nymphæas is to plant the dormant rhizomes of the hardy and tender sorts now in boxes about 10 inches deep and from 3 to 4 feet square, using a compost of three parts fibrous loam and one part of cow manure. Fill to within two inches of the top, then plant two or three rhizomes in the box, so that they are just covered. After planting place a layer of coarse sand over the surface. These boxes should be placed where they are to remain and sunk so that they will be covered with about three inches of water until the first leaf floats on the water, when they should be gradually lowered until they are covered with water 12 to 14 inches deep. Do not place these boxes too close together. They will need from 60 to 70 square feet for each box if they are wanted to do well. The hardy nymphæas when in natural ponds and tanks must have sufficient water above the crowns in winter so that the ice does not reach them.

Planting Gardenias

It is always better to get started early with gardenia planting. After removing all the plants and old soil make sure to wash out every corner of the benches thoroughly, then give a heavy coating of hot lime. What is essentially necessary to be successful with gardenias is to make use of a good porous soil. This should be of fibrous loam, two-thirds, and a third of old cow manure. Add to this some coarse sand and charcoal, so as to permit the water to pass off readily. Good drainage is very important in their culture so it is a good plan to place a layer of broken crocks on the bottom of the benches. The plants can be set from 18 to 20 inches apart between the rows and about 16 inches apart in the rows. After planting, soak the whole bench, after which water only the ball of the plant as necessary. Give them a syringing every good day for it helps to keep them free of insects, especially mealy bug. Do not let your house become cold at any time as these plants like plenty of heat. A night temperature of about 70 degrees will suit them.

Sowing Perennials

By making a sowing now of the most desirable perennials they can be grown into nice stock by next fall when they can be planted out. The best place to start the seeds is a cold frame where they will be convenient to water. For the first couple of inches of soil it is well to make a light mixture, say leaf mold and soil in equal parts with a little sand. Do not sow too thickly. Keep shaded and moist until they begin to germinate when they should have full light and sun. When they have grown so they can be nicely handled, they should be pricked out into other frames allowing enough room for their proper development. If placed about 8 to 10 inches between the rows and about 4 to 5 inches apart in the rows they have plenty. Keep them watered and clear of weeds.

Stocks for Winter Flowering

When these plants are handled right they make fine material to cut from during the winter months. If sown now they will come in early and with another sowing in about four weeks you will have flowers all winter. They should be sown now in pans or shallow flats of light soil with plenty of sand in it as there is then less liability of the seedlings damping off. When they are large enough to handle they can be potted off into small pots and placed in frames under elevated sashes to afford a free circulation of air. When the plants have filled these pots with roots they should be shifted into 4 or 5 inch pots and kept in frames until late fall. The double ones can be identified by the point of the buds being stubby, while the singles will be slender. There are a number of special forcing varieties, but I like Princess Alice, and Beauty of Nice best. They can be grown in any house where the night temperature can be kept from 45 to 50 degrees. Anything higher will give poor flowers.

Stock Plants

Every good grower makes a practice to select some of the best plants for next winter's stock. Ageratum, coleus, heliotrope, fuchsias, lobelias and many others should be shifted into larger pots—say 5 or 6 inch pots—and plunged outside up to the rims where they will be handy for water.

Mr. Farrell's next notes will be on the following: Bedding Out; Single Stemmed Chrysanthemums; Orchids, Sweet [illegible] Grass, The Compost Heap; Resting Callas.

HORTICULTURE

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Very welcome

One of the best booms that has come to the Boston florists for many a day presented itself on May 2nd and the days immediately preceding and following, on the occasion of the big demonstrations of the suffragists and their rivals—the "antis." Yellow and red roses were the badges, respectively, of the adherents of the opposing forces and such a clean-up on roses has rarely been experienced. Much to be preferred as implements of warfare than bombs or stones. Happily the crop was on in full tilt and the rose men got a thrill as pleasing as it was unexpected. This was a genuine case of the business seeking the florist and fortunately he was right there with the goods. Come again, ladies.

Convention plans maturing

We are pleased to be able to present in this issue of HORTICULTURE a complete diagram of the trade exhibition space at Mechanics' Building as laid out by Secretary Young for the Boston S. A. F. Convention; also a list of all the committees selected for local work on convention matters and a quantity of other data that will prove acceptable and useful in connection with that important event. Those gentlemen on whose shoulders rest the responsibilities of preparatory work have been assiduously busy for months on the preliminaries, the uncertainties of the situation due to the change in administration of the city's affairs making the work somewhat difficult and often delicate to handle but "all's well that ends well," and when the S. A. F. visitors arrive in Boston they will find the State and City officials, the park department, the horticultural interests of the City and the public generally all in enthusiastic accord to welcome and entertain.

Wisdom made to order

By the way, reverting to the recent "Mothers' Day" and the burning questions involved in its fitting observance, as between Miss Jarvis with her white carnation and the florists' advocacy of "any flower," one of the Boston newspapers had its profound say as follows:

"The white carnation is the emblem of mother love. France could not use the rose, for that is an English emblem, and the Germans could not use the fleur-de-lys, because it is the French national flower. All nations, however, can unite on the white carnation as the international memory flower of home and country."

Facts count for but little sometimes when they obstruct the reasoning out of a pet theory. We horticultural people have had it in our heads that France stood in the front rank as a rose-loving and rose producing country and it is "news" to us that they cannot wear roses in honor of mother in that country, while we all know that the German iris and its numerous hybrids are recognized the world over as the most gorgeous and beautiful section of the great iris family. But—"wots the use?"

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Early Planting

With some houses almost all cut off and prices not very high, a bench of nice potted plants getting potbound will often lead us to change the planting program, and plant some of the houses early. This is not a bad idea at all, especially on a good sized place where roses are wanted nearly all the year round. In planting Beauties early there is one thing that should be borne in mind and that is if the plants produce a good deal of flowers in the summer and early fall they may not flower as freely in the winter as they might when planted later. A good deal depends on the weather, however, and that is something beyond our control.

Selection of Plants

In selecting for planting get good stocky plants as nearly alike in size and amount of growth. If you have to use two sizes or various sizes, put the smaller plants to the front of the benches and the larger and stronger plants to the rear. This will give the smaller plants a better show, for they will be where there will be very little danger of getting them too wet, and the stronger plants will be where they will have a little more moisture which they require. Sometimes we plant the front row with three-inch stock, and get good results, but of course the plants will naturally take a little longer to come up. Do not make the mistake and set one small plant and then one large one. This would ruin the whole house unless you had an expert at the hose and the growing part. Keep the small plants by themselves and they will do better.

The First Watering

The first watering after planting should be given the whole bench, so as to settle the soil all over. Water thoroughly so that it will drip right through the benches, thus making sure there are no dry spots. After that only the ball of the plants should be watered until after they start, and then the circle watered can be increased as fast as the plant grows. Make sure that they are plenty wet enough when they are planted, as, if they are planted dry, the center of the balls would remain quite dry in spite of the soaking that the rest of the soil may receive.

Cleaning Before Filling the Benches

Before the benches are refilled see that they have been washed out with the hose at a good pressure, and then given a good coat of hot lime to which a little copper sulphate has been added. This will help kill many of the fungi that may be loitering around waiting for a chance to get at the roots or do some damage of that kind. Do not try to dissolve the sulphate in any tin or galvanized iron pail, for such would quickly get filled with holes as the sulphate is very corrosive and will eat its way right through if it is strong in solution.

Whitewashing

This may seem so simple an operation that giving a space to a few lines on the subject seems pure waste, and yet there are several little things about it that are very important, the first being good fresh lime, hot if possible, and the second being a good brush, and then a wet bench, or whatever is to be whitewashed. See that it is soaked with the hose so that the water wets all the boards and enters all the cracks and crevices. Then have your lime quite thick, and you will be surprised at the amount of work that one man can do when compared to the man working on a dry bench. The wear on the brushes will be quite a saving, for a brush used carefully on a bench well sprinkled will last several seasons, and that is good compared to having a man wear out a brush for each house. See that the lime is put well into all the corners, and that there are no places left uncovered on the sides of the bench. Last of all, see that a good coat is put on as this will not only cleanse the bench but will help to preserve it.

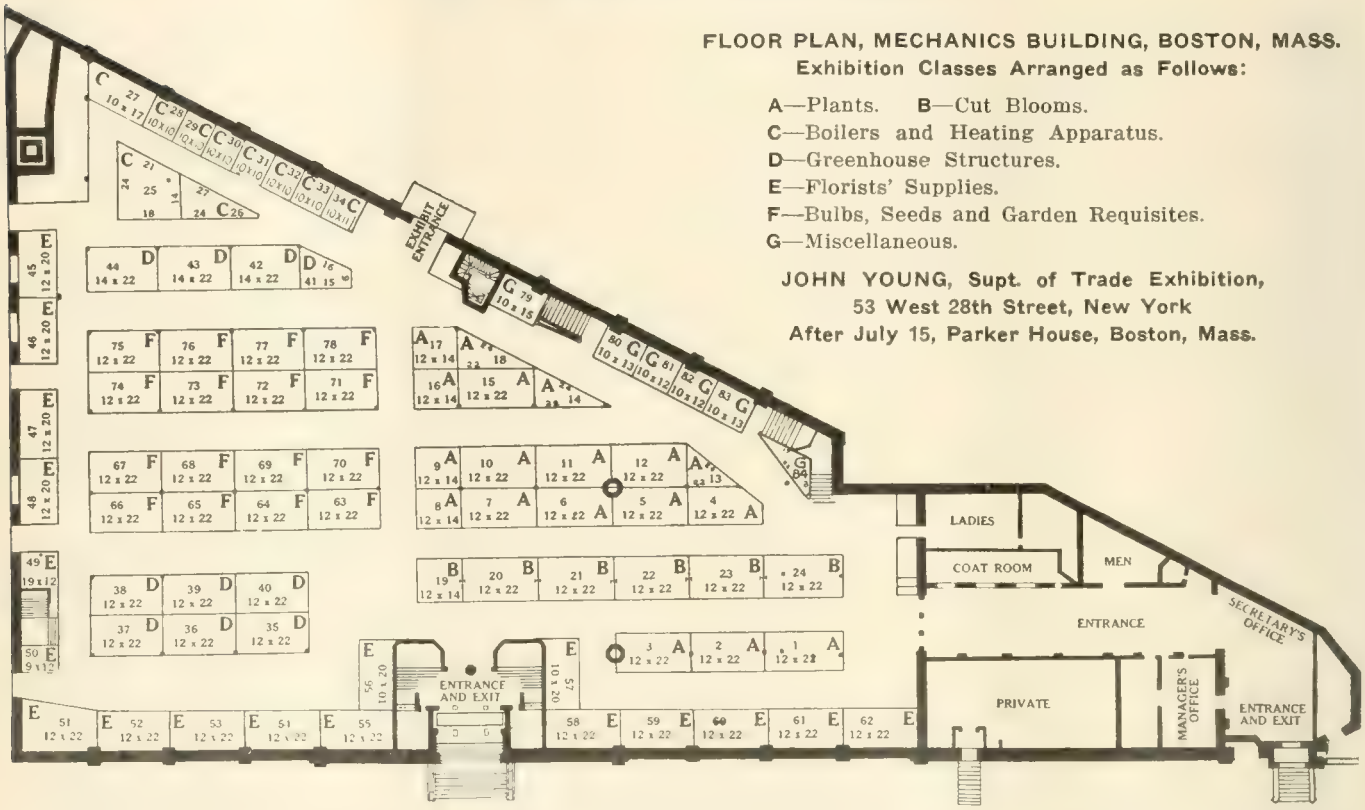
Preparing the Soil

Sod heaps that have already been turned over will be in excellent condition to turn over once more, mixing a little bonemeal all through, and then filling the benches with this. If the manure in the sod is not very plentiful it will be a good idea to mix in a little more. This must be well decayed and short, free from straw and other coarse material. We like to have plenty of manure in the soil, more so for the early houses as the plants then will have something to take hold of, and turn into stems and buds. We seldom bother going over the benches with a trowel as the old ways called for, although this method can be uesd to advantage at certain times.

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SOCIETY OF AMERICAN FLORISTS' AND ORNAMENTAL HORTICULTURISTS



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C—Boilers and Heating Apparatus.
D—Greenhouse Structures.
E—Florists' Supplies.
F—Bulbs, Seeds and Garden Requisites.
G—Miscellaneous.

JOHN YOUNG, Supt. of Trade Exhibition,
53 West 28th Street, New York
After July 15, Parker House, Boston, Mass.

CONVENTION ARRANGEMENTS.

The arrangements for the Convention meetings, and Trade Exhibition at Boston, are very advantageous and convenient. The Trade Exhibition will all be held on one floor, the main floor of the Mechanics Building. Meetings will be held on the floor above, in the Paul Revere Hall. Adjoining Paul Revere Hall are large committee rooms, which have been set aside by the Advisory Committee for the use of the Ladies' S. A. F., The Florists' Telegraph Delivery, Florists' Hail Association and meetings of the American Rose Society and the American Carnation Society, and for the use of committees which may desire to use the same.

Floor plans, as submitted by the Advisory Committee, have been mailed to the members. Anyone desiring an extra copy will have same sent immediately upon notification to this office. The inquiries received thus far, would indicate that the Trade Exhibition in Boston will excel any other similar showing made in the history of the Society. All spaces on the main floor of the Mechanics Building are favorable for any trade exhibit. The entrance and exit marked on the diagram between blocks 56 and 57 will not be used. There will be only one entrance and exit, that adjoining the Secretary's office.

The official sign, including the rental of upright or stand in which to place same, will not exceed the price of $1.25 or $1.50 each. Exhibitors are requested to send in their order for signs, if possible, the same time they reserve space, so that they will be ready for the exhibitor upon his arrival at the Hall. The lettering permitted on these signs, is, one line for the firm name, one line for the business and one line for the address, a total of three lines.

Selling of goods by persons not having engaged space will not be permitted unless such persons or firm shall have secured a permit or license from the Secretary, same not to cost less than $20.00. When more than one exhibitor joins in the same space, there will be an additional charge of $20.00 for each additional exhibitor. Twenty-five per cent of the total cost of space must be paid on signing the contract and the balance before the exhibitor takes possession. The flat rate per square foot for space is $.40. Minimum charge for space is $20.00.

—

The Secretary wishes to announce that the 1914 button has been mailed to all members in good standing in the Society. If any member has not received same, it may be that he has over-looked paying the assessment for 1914. Upon receipt of the 1914 assessment, this button will be returned promptly. There are still a few life membership buttons on hand, which will be sent to any life member upon receipt of request, which should include $.75.

JOHN YOUNG, Secretary and
Superintendent Trade Exhibition

—

THE CONVENTION GARDEN.

Deputy Park Commissioner J. B. Shea of Boston has sent out the following circular letter to presumtive exhibitors.

"The Out Door Convention Garden to be held in connection with the 1914 Society of American Florists' Convention is now ready to plant, and will be under the direct supervision of the Park Department of Boston. The garden is to be located in one of the beauty spots of Boston, bordering on the Fens Pond and within a few minutes walk from Horticultural Hall.

"This will be one of the greatest events for floriculture and horticulture ever held in the East and will attract enormous crowds of the right people. We cannot see how you can afford to miss this opportunity of display in your specialties, more especially as the cost will be very small and will require no care on your part.

"There will be no charge for spaces as the land is owned by the City of Boston, and its ordinances forbid this; but for preparation, care and maintenance a small charge will be made to cover cost of preparation and care throughout the summer. This will be 10c. per square foot for spaces up to and including 2500 square feet. From 2500 square feet to 5,000 square feet at 8c. per square foot, and over 5,000 square feet at 6c. per square foot.

"We are enclosing a diagram of the lay-out and your preference for position will have every consideration. As the time is very short now, an early decision is necessary for best results. The garden is all ready for trees, shrubs, vines, conifers and hardy herbaceous plants.

"For tender plants it will be safer to defer planting until May 20th. Let us hear from you at once and we will be very glad to do everything in our power for your success. All plants should be addressed, express prepaid, to Boston Park Department, Back Bay Fens, Boston, Mass., and marked

'Convention Garden,' care James B. Shea, and advise us of shipment through the mail.

"Do not waste time on this but help make the 1914 Convention the greatest in history, and also reap the benefit of the large amount of advertising and sales that will come to you.

"Checks for the full amount of space must accompany the order and be drawn to James B. Shea, Chairman."

BOSTON CONVENTION COMMITTEES.

Executive.

(Where street number only is given, address is Boston.)

P. Welch, chairman, 226 Revonshire St.; John K. M. L. Farquhar, secretary, 6 South Market St.; Thomas Roland, treasurer, Nahant, Mass.; William J. Kennedy, Chestnut Hill, Mass.; E. Allan Peirce, Waltham, Mass.; William J. Stewart, 11 Hamilton Place; James B. Shea, 33 Beacon St.

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Entertainment.

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Ladies' Reception.

Wm. J. Kennedy, chairman, Chestnut Hill, Mass.; James Wheeler, Natick, Mass.; John J. Cassidy, 6 Beacon St.; Wm. E. Fischer, Union Ter., Forest Hills; Frank H. Houghton, 4 Park St.; Geo. B. Anderson, Hyde Park, Mass.; Geo. M. Anderson, Milton, Mass.; Wm. Cahill, care Fottler, Fiske, Rawson Co., Faneuil Hall Sq.; Stephen J. Quinn, Brookline, Mass.; Martin Wax, 143 Tremont St.; Louis J. Reuter, Westerly, R. I.; Wm. N. Craig, Faulkner Farm, Brookline, Mass.; Arthur E. Thatcher, Bar Harbor, Me.; F. N. Sanborn, care Stearns Lumber Co., 1 Sudbury St.; Peter Fisher, Ellis, Mass.; Jos. Fuller, Leominster, Mass.; H. Huebner, Groton, Mass.; John Barr, So. Natick, Mass.; Edmund J. Welch, 226 Devonshire St.; Wm. C. Rust, Goddard Ave., Brookline; Kenneth Finlayson, 63 Paul Gore St., Jamaica Plain; Wm. A. McAlpine, 256 Devonshire St.; B. Hammond Tracy, Wenham, Mass.; Alexander P. Dewar, 6 So. Market St.; H. H. Bartsch, Waverly, Mass.; Charles Robinson, 1 Winthrop Sq.; James Methven, Brush Hill Road, Readville.

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Delegates from the Massachusetts Horticultural Society.

R. M. Saltonstall, 99 Bay State Road; Edward B. Wilder, 90 Columbia Road, Dorchester; Wm. P. Rich, Horticultural Hall, Boston; Wm. Downs, Chestnut Hill, Brookline; James Wheeler, Natick, Mass.; David R. Craig, Wellesley, Mass.; Jackson Dawson, Arboretum, Jamaica Plain; Peter Fisher, Ellis, Mass.; George B. Dorr, 18 Commonwealth Ave.

DEPARTMENT OF PLANT REGISTRATION.

Public notice is hereby given that Mrs. B. B. Tuttle of Naugatuck, Conn., submits for registration the Orchid described below. Any person objecting to the registration or to the use of the proposed name is requested to communicate with the Secretary at once. Failing to receive objection to the registration the same will be made three weeks from this date.

Name—Laelio-Cattleya Tuttleæ.

Description—Derived by crossing Cattleya Thayeriana with the pollen of Laelia Perrinii; habit of growth much like Laelia Perrinii; leaf and pseudo-bulbs dark green, suffused with reddish purple; flowers intermediate between the two parents; sepals and petals light rose; lip nearly intire; in shape like that of C. Thayeriana, nearly white, with the apex of the front lobe deep crimson; flowers 4½ inches across.

May 8th, 1914.

Public notice is hereby given that as no objection has been filed to the registration of the Carnation, Dr. Sam, by Charles L. Baum, of Knoxville, Tenn., or the Antirrhinum "Janesville" by Charles Rathjen, 813 Centre Street, Janesville, Wis., same becomes complete.

JOHN YOUNG, Secy.

May 5, 1914.

Obituary

Brian P. Critchell.

Brian P. Critchell, one of the oldest and most renouned florists in Cincinnati died Monday morning, May 11, in his seventy-second year. He was born in England on August 8, 1842, and came to this country when a lad of four. After having seen service in sixteen battles in the Civil War he embarked in the florist business in Cincinnati and followed this business in some way or other until within a couple of years of the time of his decease. While he was in the retail business in the olden days he was one of the most widly known florists in this part of the state. Later he made a very good record as Superintendent of public parks. Then up to the last few years of his life he followed landscape and horticultural work. Surviving him are Frances J. Critchell his widow and eight children, among whom is C. E. Critchell, the popular wholesale florist. He was a member of the various Masonic bodies, the G. A. R. and was one of the trustees of the Jabey Elliot Flower Market. Mr. Critchell had a most charming personality and charming manner, brimful of merry humor and always ready with a fund of good stories, which made him an ever-welcome companion. At the first S. A. F. Convention in Cincinnati he was one of the leading spirits and contributed not a little to the success of that memorable event.

Frank G. Yingling.

Frank G. Yingling, a resident of Reisterstown, Md. for many years, died very suddenly on Friday morning, April 24, at his residence near the Hannah More Academy, of hardening of the arteries of the heart. He is well known as a florist in which business he has been active for almost his liftetime. He is survived by his widow, who was a Miss Fox, and three daughters and four sons.

J. F. Slimon.

J. F. Slimon, late manager of the Vaughan's Seed Store, New York, died on Friday, May 8. Mr. Slimon, previous to his assuming charge of the Vaughan store was for many years with J. M. Thorburn Co., and was widely known and highly respected in the seed trade. He was obliged to discontinue work a few months ago on account of failing health.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The monthly meeting of this club, held on Monday evening, May 11, met with very inclement weather and the result was a light attendance of members. Eleven new names were added to the membership list and one more was proposed for action at the next meeting.

Wm. E. Marshall on behalf of the Outing Committee, reported that everything looked promising for the picnic to Glen Island on July 1. After various reports by John B. Nugent on behalf of the Annual Dinner committee, F. H. Traendly for the Financial Department of the recent Spring Flower Show and F. R. Pierson on the plans for the 1915 Flower Show, it was decided to secure a guarantee fund of $10,000 towards the 1915 show. Notwithstanding the light attendance, nearly $2,000 was immediately subscribed. Advance schedules are now in preparation. F. H. Traendly, Joseph A. Manda, C. H. Totty, Anton Schultheis, Jr. and Robert Koehne were appointed Transportation Committee to make arrangements for the Convention trip to Boston. J. Austin Shaw, A. F. Faulkner and W. C. Rickards, Jr., were appointed a committee to prepare resolutions on the death of J. F. Slimon, which occurred Friday, May 8th.

Richard A. Vincent of White Marsh, Md., was then introduced and presented a very fine and much enjoyed illustrated lecture on the subject of Geraniums, for which a hearty vote of thanks was returned. R. Vincent, Jr., also addressed the meeting mainly on the subject of Affiliation.

W. A. Manda, Inc., made a display of Calceolaria Stewartii, for which a certificate of merit was awarded. R. Vincent, Jr., & Sons Company also received a certificate for Geranium My Maryland. W. A. Manda, Inc., were given a vote of thanks for cut flowers of a new seedling geranium.

The meeting adjourned at the unusually early hour of 10 p. m.

FLORISTS' CLUB OF WASHINGTON.

Richard Vincent, Jr., was the guest of the Florists' Club of Washington, at its regular monthly meeting. Mr. Vincent gave a very enjoyable talk on organization and its value and spoke of what could be accomplished by a thorough get-together spirit. He also told of the plans being made by the Florists' and Gardeners' Club of Baltimore for attending the Boston convention in August. It is the hope of this club that enough members can be assembled in Baltimore to warrant the chartering of a boat of the Merchants' and Miners' Transportation Company. He stated that he was already in receipt of communications from florists who are located in Richmond, Ind.; Chicago, Ill.; St. Louis, Mo.; Pittsburgh, Pa.; and other places, stating that they would like to join with Baltimore in making the trip by water. A committee of the local club was appointed at a recent meeting to make plans and it is believed that a large number of Washingtonians will be in the party. As Mr. Vincent explained, the cost of the trip, including meals, after leaving Norfolk, and the stateroom will be $15. Mr. Vincent also exhibited a new red geranium which have not as yet been disseminated, which he has named My Maryland.

The real excitement of the evening took place when President Cooke went after the florists of not only this, but all other cities who raise their prices on white carnations for sale on Mothers' Day. He stated that the majority of the florists were absolutely devoid of sentiment whereas the business was full of the little niceties of life. He severely criticized the growers who held the white carnations up to $10 per hundred during that period when before that time it is a hard matter to get $2 for them. He stated that he would sell all the white carnations necessary to supply his trade at 25 cents per dozen and claimed that all florists should be willing to pocket a small loss in the same manner. The majority of the members present could not seem to take the same view of the subject and he had but little support, they believing in the proverb "There is no sentiment in business."

Fred H. Kramer made the longest speech of his life when he made the mere suggestion that the club hold a show in the fall. That brief remark stirred up more enthusiasm than anything that has been brought before the club in some time and it was hard for President Cooke to obtain order while the motion to hold the show could be properly discussed. Needless to say all the votes were "ayes" and a committee with Fred H. Kramer as chairman and William F. Gude and R. L. Jenkins as associates was appointed to look into its feasibility.

AMERICAN ROSE SOCIETY.

At the Executive Committee meeting of the American Rose Society held in New York City on Monday May 11th, a resolution was passed that the members of the American Rose Society would meet in Hartford, Conn., on June 19, 1914, at the Hartford Union Station for the purpose of going over the Hartford Rose Garden, and as many of the members of the Rose Society as can attend are requested to be present on that day. The day that was spent there last year was a source of much pleasure and interest.

Concerning the two roses of which notices of registration have been sent out, so far there has been no objection to the names received, same being "Thora" by Geo. Burton and "Defiance" by Edward Kress.

The Syracuse Rose Society with 216 members has joined the American Rose Society as an affiliated association.

The special prizes offered for the spring show have been received and turned over to the treasurer of the New York Flower Show committee.

BENJAMIN HAMMOND, Secy.

CLUB AND SOCIETY NOTES.

The St. Louis Retail Florists' Association will hold its regular monthly meeting Monday night, May 18, at the Washington Hotel.

State Vice-President for Missouri Robert J. Windler, of the S. A. F., will as usual have charge of the arrangements for the trip to the Boston Convention. Robert is out hustling for a large delegation and new members for the society.

Displays of Darwin tulips, narcissi and pansies will feature the annual May exhibition of the Massachusetts Horticultural Society, to be held at Horticultural Hall, Saturday and Sunday, May 16 and 17. Exhibits of native wildflowers, fruits and vegetables will also be shown. The exhibition is free and will be open from 12 to 6 P. M., Saturday, and from 2 to 6 P. M., Sunday.

The Lancaster County, Pa., Florists' Club presented enough packets of flower seeds to the Children's Garden Association to brighten up the whole of Lancaster, and the gratitude of the Association and the eagerness with which the children received them more than paid the bill incurred from a Philadelphia seed house from which they were procured.

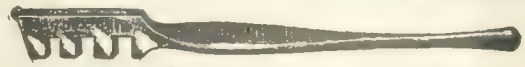
The next meeting of this Club is May 21st, and bedding plants the subject.

ALBERT M. HERR.

At the meeting of the St. Louis County Growers' Association, which is now one year old, on Wednesday, May 5th, the election of officers resulted in the re-election of Frank Vennemann, president; C. E. Cerney, vice-president; Joe Deutchman, secretary, and W. J. Pilcher, treasurer. Board of trustees: A. H. Ahner, Hugo Gross and F. W. Ude, Jr. The reports of the secretary and treasurer showed that the Association had made good headway during the past year, both financially and in attendance of its members.

The Elberon Horticultural Society held its regular monthly meeting on May 4, with a large attendance present. A cultural certificate was awarded to Mr. Charles Hurn for an excellent vase of Radiance roses, also to George Masson for a beautiful vase of antirrhinum. At the next regular meeting on June 1, William Sperling of Stumpp & Walter Company has promised to give an address on tulips. The schedule of the fall show to be held in

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WILLIAM BRYAN.

At the monthly meeting of the New Jersey Floricultural Society held in Orange, May 4, the society decided to hold a Rose Night on Monday June 1, and an exhibition of sweet peas, on Monday July 6. Schedules are being drawn up for the Ninth Annual Dahlia, Gladiolus and Vegetable Show to be held Oct. 5, 1914. Schedules may be had from the secretary on application any time after June 1, 1914. Awards for the evening: 1st, Seedling Antirrhinum, Sidney and A. M. Colgate; 2nd, Calceolaria hybrida, Peter Hauck, Jr.; 3rd, Hydrangea, Mrs. H. Graves.

GEO. W STRANGE, Cor. Secy.

The florists of San Antonio formed a permanent organization at a meeting held Monday night, April 27, at the Chamber of Commerce. The following officers were elected for the ensuing year; Chris Hauser, Jr., president; Frank Suchy, vice-president; F. Breeborough, secretary, and Mrs. Charles Albrecht, treasurer. The following executive committee was named: Chris Hauser, ex-officio; Frank Hauser and Mesdames Ed. Green, F. Bright and Pauline Jung. Meetings are to be held each month and the membership will include most of the San Antonio florists. Plans were made for a flower show to be given each fall.

The regular meeting of the Tri City Florists' Club was held at the residence of Wm. Knees.

President John Staack called the meeting to order and the following resolutions were adopted.

Resolved, whereas our former fellow member, Theo. Ewoldt on the 8th day of April, 1914, paid the last great debt of nature and passed into the beyond:

Therefore, be it resolved; that the Tri City Florists' Club, in his death are called upon to mourn one of its most valued and useful members, one where professional knowledge was ever at the command of any fellow worker, where cheery good nature and jovial disposition added pleasure to our meetings and whose merits and value as a citizen will not be easily replaced in his community.

Be it further resolved; that these resolutions be spread upon the minutes of the Society and a copy furnished to the family and to the trade papers.

ARVID ANDERSON, HENRY GAETHJE, W C. WILSON, Committee on Resolutions.

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FEVERFEW, Little Gem, $2.00 per 100.

VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.

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ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.

ASPARAGUS PLUMOSUS, 4 in. pot, $6.00 per 100 strong.

DRACAENA INDIVISA, 4 in. pot, $8.00 per 100.

ENGLISH IVY, R. C. $1.50 per 100.

ACHYRANTHES LINDENII, 2¼ in. pot, $1.50 per 100.

TRADESCANTIA, in 3 varieties, R. C. $1.00 per 100.

J. E. FELTHOUSEN

154 Van Vranken Ave.,

SCHENECTADY, N. Y.

NEMATODES AND PAEONIES.

I am probably the pæony grower who C. S. Harrison has reference to about being very needlessly exercised over my pæony stock. Fourteen years ago I started in the business with clean hands, seventeen acres of virgin soil and an ideal to furnish the best the world afforded. Naturally I took advice about the growing from men old in the business, and, when I saw nodules on the roots, I consulted them. The oldest grower of all made light of them and said he had seen them on pæony roots for 25 years. This lulled me into a quiet about them. When I consulted another old grower about using my ground over again for replanting, he replied that he had used the same ground over and over again for 20 years, saying he had to—or he would not have a bloom left for his own use. Now I bought stock from both of these gentlemen, in one case, very much more than the other, so that some years it ran into the 100 plants of a variety. I also sold to both in a small way. But last fall the one from whom I had bought the most, threw me down hard. He returned an order of $250. The reason was nodules on the fibrous roots. He charged me with a "very serious thing" in sending out such stuff.

This made me think I had better find out for myself, and in order to go at it I had to change these old growers as my advisers and look about for new ones. I applied to the government at Washington as to what department of the plant industry I should submit roots of pæonies that were infested, for their inspection. Upon receiving a reply I forwarded some roots, the original stock of which came from Lemoine of France, and also another variety of which the original stock had come from one of these former advisers. The letter below was the reply.

UNITED STATES DEPARTMENT OF AGRICULTURE.
Bureau of Plant Industry.
Pathological Collections and Inspection Work.
Mycological Exchange.

Washington, D. C., April 11th, 1914.

Mr. E. J. Shaylor, Auburndale, Mass.

Dear Sir: The pæony roots referred to in your letter of April 7th have been received and carefully examined.

The enlargements on the fibrous roots are caused by nematodes (Eelworms) but no evidence of nematode infection can be found in the large root. The latter had somewhat the appearance of having suffered from insect attacks, but no insects were present and the material had to be so mutilated by the examinations in this office that sufficient did not remain to be transmitted to the Bureau of Entomology.

You no doubt know that plants infested by eelworms should be destroyed and also that the soil in which the plants have been grown is unfit for use for the same kind of plants or others susceptible to nematode attacks until it has been sterilized. The most efficient agent to be used for this purpose in case of greenhouse soil is steam, although certain chemical treatments are sometimes recommended. We are sending you Circular No. 91 of this Bureau, which you may find of interest as bearing upon your problem.

It will be well for you to send some of the large root material to the chief of the Bureau of Entomology. If you were not a commercial grower, I should also suggest that you write to the Horticulturist of this Department in regard to the methods of cultivation followed with the plants that have not blossomed for ten years.

(Mrs.) FLORA W. PATTERSON,
Mycologist in Charge.

Pursuant to the advice in the above letter I sent some plants to the Bureau of Entomology and asked particularly as to whether the disease that caused the nodules was the same as that which affected the large roots.

The reply to this last request is below:

United States Department of Agriculture,
Bureau of Entomology,
Washington, D. C., April 30, 1914.

Truck Crop and Stored Product Insect Investigations.

Dear Sir: Answering your recent letter transmitting a root of paeony I regret to inform you that your idea in regard to the large abnormal growth on the roots of the plants is correct. Both the smaller nodule and the large growth are caused by the attack of one of the nematodes. In connection with the control it is necessary to rotate crops in order to insure the destruction of the nematodes in ground already infested, as no application has as yet been discovered by this Department which is capable of ridding the ground after once becoming badly infected by nematodes. It is better in this connection not to risk planting infected roots in any new plat of ground used for this purpose, as it will only be again infected and the plants will not thrive. The roots should be thoroughly assorted and all roots attacked by nematodes eliminated before planting.

Yours truly,
F. H. CHITTENDEN,
In charge Truck Crop and Stored Product Insect Investigations.

Mr. E. J. Shaylor,
Wellesley Farms, Mass.

Let me say here that I forwarded to the Bureau of Entomology a large root of stock, the original of which had come from Lemoine, same as in the first samples sent, and besides some fibrous roots with nodules, of which original stock had come from the other old grower spoken of above, and the one who threw me down so hard. Let me also say that I have never set the same ground over again. Now, Mr. Harrison, these are some of the new advisers I have thought best to go to, rather than to continue with the advice of the old growers. I am still seeking advice.

E. J. SHAYLOR.

NEWS NOTES.

Portland, Ore.—A. Zittewitz has taken a five-year lease on the greenhouses of W. T. Woods at Lents.

Newport, R. I.—William Allan, who recently resigned his position as gardener for Dr. Jacobs, is now installed as gardener for Mrs. George D. Widener. The Widener place formerly belonged to the late Dr. C. M. Bell, and is being remodeled in a very expensive way. Besides a new house and garage, the grounds are being changed very much, and when finished it should be one of the show places of Newport.

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Influence of the Weather on the Pea Crop.

Gentle spring is here at last and we trust she will bide-a-wee. So much has been said of the effect of the late spring on counter trade at the seed stores that nothing further is necessary along those lines. However, one effect of the late spring has not received very much attention so far as we have noticed and that is its influence on planting. Nearly all crops have gone into the ground from two to four weeks late with the exception of a few favored spots where the character of the soil was such that it quickly dried off. We have ascertained that peas for instance, have been planted many weeks later than usual and up to the first of May in the State of New York the canners had not succeeded in getting 10 per cent of their seed peas in the ground. No matter how favorable the weather may be from now until harvest, the crop will inevitably be late. It is customary for most of the New York State packers to begin operations anywhere from the 15th to the 22nd of June, but few of them expect to start this year much before the 1st of July. We refer to the matter simply because it will bring the peas into blossom at what is usually one of the hottest periods of the summer; and if dry at the time and the heat is protracted, it will mean inevitably a short crop. This of course necessarily affects peas grown for seed the same as for canning, but as only a very small percentage is grown for seed in the East the effect on the seed crop will be immaterial.

So far as we are able to learn the opposite conditions prevail in the West where planting has been unusually early. We are referring now to peas grown for seed purposes in the far Northwest, Montana and Idaho. While this early start is distinctly favorable there is a great fear that the water supply is liable to run short before midsummer in which event there will be undoubtedly a very short crop of seed. It is known generally, we assume, that most of the farming done in these states is by irrigation. Most of the streams that are depended upon to furnish water are fed by the snows which fall in the mountains during the winter. From all reports the snow fall of the past winter has been the lighest in many years, and as the spring opened unusually early the snow will probably disappear at an early period, and without rains to supplement the snow there may be dry times ahead for farmers in the northwest. These facts we believe will be interesting to the trade in general for a short crop of peas the coming summer may not prove an unmixed evil. We do not of course mean a crop failure. But a considerable shortage might in the end mean a blessing both to the seed grower and the consumer.

General Crop Comments.

While we have been referring to the pea crop, we may incidentally say that nearly all crops which are usually planted early will suffer from the handicap of late planting this year, spring grains among the other items. The recent Government report showing the very high and very satisfactory condition of winter grain, especially wheat, is most gratifying to the farmers and the public in general, but it is quite a distance from harvest and many ills may befall the crop before that time is reached, however, we do not desire to be pessimistic; on the contrary we should be pleased to see, like most other interested persons, a general good crop of all staples the coming summer. Good crops generally make for prosperous conditions, and as there is much criticism of business conditions and many idle men at the present time, any causes that would tend to improve matters would be welcome.

It is needless to say that the seed trade is busy. Probably the trade as a whole was never more busy at this period of the year. Much of the business that is being done now should have been transacted in April and two months will be crowded into one. Because of the lateness of the season many items will not be used this year that would have been had we had a normal spring.

Canners Will Not Go to San Francisco.

An important meeting of the officers of the National Canners' Association together with those of the Canning Machinery and Supplies' Association and the Canned Foods and Dried Fruit Brokers' Association is in progress in Washington to determine where the next annual Canners' Convention shall be held. A meeting for this purpose was held some weeks ago in Chicago, but many obstacles which arose at that time prevented a decision being reached. We are advised that San Francisco has been eliminated as a convention point for 1915. No other place has been decided on, but we understand some city of the middle west will be chosen. We will furnish full information as soon as definite action is taken. San Francisco is favored for 1916.

Seed Legislation Sidetracked.

Editor HORTICULTURE:

I am pleased to advise you that Senator Gronna's bill (S. 480) to regulate interstate commerce in seeds, has received an adverse report from the Senate Committee on Agriculture and Forestry, to which this bill was referred. It is not likely that this report will be reversed by the Senate.

The other interstate seed bill before Congress, being Mr. Howard's Bill (H. B. 11170), has not been considered by the House Committee on Agriculture, and as their program for the remainder of the session is now made up and does include this bill, no action will be taken upon it.

From the above you will perceive that there is little likihood that any action will be taken on seed legislation in this session of Congress.

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Notes.

Omaha, Neb.—Werter De Vaughn will shortly open a seed store on Harney street.

Chicago.—E. F. Winterson's seed store made what was probably the record sale of the season last week, when 100 Firebird cannas were sold to one customer for $125. The plants will be used to beautify a Chicago lawn.

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Pottsville, Pa.—Mrs. Walter Wolfe, First street.

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Northampton, Mass.—A. Parks, Connor's Block.

Baltimore, Md.—Pierce & Co., 2118 Madison street.

Springfield, Mass.—O. C. Alderman, 229 Worthington street.

Pittsburgh, Pa.—David Hill, Fifth avenue, near Wood street.

Wilkinsburg, Pa.—Wm. Drewes, Wood and Franklin streets.

STEAMER DEPARTURES

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Philadelphia, N. Y.-S'h'mpt'n. May 22
New York, N. Y.-S'hampton. May 29

Atlantic Transport.

Minnetonka, N. Y.-London... May 23
Minneapolis, N. Y.-London... May 30

Cunard.

Carpathia, N. Y.-Mediter'n... May 19
Lusitania, N. Y.-Liverpool... May 19
Mauretania, N. Y.-Liverpool.. May 26
Laconia, Boston-Liverpool... May 26

French.

La Provence, N. Y.-Havre.... May 20
Rochambeau, N. Y.-Havre.... May 23
France, N. Y.-Havre..... May 27

Hamburg-American.

Pres. Lincoln, N. Y.-Hamb'rg. May 21
Amerika, N. Y.-Hamburg.... May 23

Holland-America.

Ryndam, N. Y.-Rotterdam... May 19
Rotterdam, N. Y.-Rotterdam. May 26

Leyland.

Devonian, Boston-Liverpool.. May 23
Canadian, Boston-Liverpool.. May 30

North German Lloyd.

K'p'z'n Cecilie, N. Y.-Bremen. May 19
Pr. Irene, N. Y.-Mediterr'n'n. May 23
Kr. Wil. der Gr., N. Y.-Br'm'n. May 26
Bremen, N. Y.-Bremen..... May 28

Red Star.

Lapland, N. Y.-Antwerp..... May 23
Vaderland, N. Y.-Antwerp.... May 30

White Star.

Cedric, N. Y.-Liverpool..... May 21
Oceanic, N. Y.-S'hampton.... May 23
Arabic, Boston-Liverpool..... May 26

Detroit, Mich.—Paterson's Flower Shop, 2050 Woodward avenue.

Providence, R. I.—John Foster, Westminster, opposite Greene street.

NEWS NOTES.

Springfield, Mass.—Sidney A. Saunders has purchased the store of N. F. Higgins at 150 State street.

New York, N. Y.—Monroe & Reynolds have taken a two-year lease of the store at 111 W. 28th street, formerly occupied by the Growers' Cut Flower Co.

Los Angeles, Cal.—The firm of Dieterich & Turner have dissolved partnership. Mr. Turner will hereafter conduct the greenhouse and cut flower and plant end and Mr. Dieterich will look after the nursery part of the business.

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Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
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Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
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New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
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Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
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Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and I St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

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Portland, Ore.—Holden Floral Company, capital stock $5000. Incorporators John G. Holden, Frank A. Chervenka and E. Earl Felke.

Scranton, Pa.—People's Co-operative Company, to operate farms, creameries, greenhouses, orchards and chickeries; capital stock $500,000.

James J. Cassidy, who has been in the employ of Wm. E. Doyle since he was a boy and has been in charge of the W. E. Doyle Company's store on Boylston street, Boston, for a number of years, has bought out the store and business of that company at 6 Beacon street. Mr. Cassidy is Exalted Ruler of the Boston Lodge of Elks, and enjoys a wide acquaintance and popularity that will stand him well in his new venture.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

BUFFALO
S. A. ANDERSON
440 MAIN STREET
Special Deliveries Niagara Falls and Lockport

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

PHILADELPHIA NOTES.

Scare heads in the Saturday Evening papers had it that Mothers' Day had been spoiled because the commission men had manipulated the price of flowers to such an extent that many thousands were unable to pay the reverent tribute. This sad tale probably emanated from some retailer and the cub reporter took it all as gospel and now the commission man is "the goat.'

There is considerable meat and novelty in a little brochure issued from Michell's, edited by the advertising manager, E. M. Pettit, entitled "Grow." The chapter on salesmanship is especially good. An example is given of how a first-class salesman goes about it. While everyone cannot attain such perfection at once, it is good to have a star to aim at, and maybe the time might come when the little wagon would be securely hitched to that star. Aim high and "Grow."

John C. Gracey, chairman of the Florists' Club Outing Committee announces that he has appointed the following as the rest of his committee; Arthur Niessen, (treasurer), Fred Michell, Jr., Fred Copperwait, John Kuen, Adolph Farenwald, Charles E. Meehan. The affair will take place on June 10, in Schuetzen Park on the Old York Road and can be reached by trolley or by the Reading (Tabor Station.) There will be a fine program and the enthusiasm is already beginning to bubble.

Fine as were Mr. Tuthill's remarks on the "spark plug" at the last meeting of the Florists' Club, he is on the wrong track when he endorses "let the grower do it." That is, let the growers get together like the master builders and assess themselves for a boost to the business in general. Can't be done in the flower business. Too varied. Too complicated. Too unorganized. A close guild like the brickmakers might do something as they all make bricks and little else. All the retailers are much in favor of the idea. They seem to feel that they would get a lot of advertising they would not have to pay for and they would exact all the extra profit from the public and they think they are quite able to deal with the grower should he have the temerity to ask any more for his product. Advertising is a personal or corporation or trust proposition. The latter does not apply to the flower business and never will. So this idea of co-operative advertising for everybody in general and let the "easy marks" pay the bill is "chasing a rainbow."

A correspondent asks "did your P. C. ever hear of a profession being successfully unionized." Sure! Lots of them. What is a Bar Association but a union? He also persists in repeating that the P. C.'s notion of educating the employer from his $50. a month standard to at least a minimum of $100. is a fallacy. In other words, it is impossible to educate the employer that $50. is far too low for an experienced gardener who has served his apprenticeship and is thoroughly qualified. Why, even a common laborer can get $2.50 and $3 a day and a bricklayer can get 62½c. an hour. As for my knowledge of the gardeners' society I am a member of it and I never understood before that there was anything in it that was secret, or anything that the members in general "knew very little about." Come, come Mr. Ebel. Have another think! The transformation in the past few years which you have seen in the gardening business is largely, I suspect, what Mrs. Mary Baker G. Eddy would have called "a condition of mind" on your part and not on the part of the business. Because you have had a complete transformation of your views during the few years that you have been among us does not make a transformation of the trade by any means. You "imagine a vain thing."

This is not written to get back at Mr. Ebel. Far be it from me to have any such feeling. I speak with every courtesy towards Mr. Ebel who is a gentlemen and scholar. The object I have in discussing the thing is to thresh the matter out in a friendly way and see if we can't find some way of reaching that $100 minimum.

Visitors:—Adolphus Gude and William F. Gude, Washington, D. C.; H. L. Holmes, Harrisburg, Pa.; M. Boks, Ghent, Belgium; J. F. Shader, Dorrancetown, Pa.; E. Howard Smith, rancetown, Pa.; E. Howard Smith, Hazleton, Pa.; Chas. L. Schmidt and Miss Elsie Schmidt, Harrisburg, Pa.; W. R. Thoms, Atlantic City, N. J.; James Brown, Coatesville, Pa.; W. C. Langbridge, Albany, N. Y.; W. Maschmann, Hamburg, Germany.

WASHINGTON NOTES.

Gude Bros. Company last week exhibited some yellow dahlias which proved to be quite a novelty. Although attracting considerable attention, they were not in any demand.

According to an announcement made by officials of the Brookland Citizens' Association, the third annual rose show to be given by that and associated organizations will be one of the largest affairs of the kind ever held in this city. Dr. Walter Van Fleet, rosarian of the Department of Agriculture; George W. Hess, superintendent of the Botanic Gardens, and Mrs. Edwin F. Sweet, have been selected as judges and the show will be held on May 26 and 27.

Considerable interest is being manifested in the coming annual shad bake of the Washington Board of Trade in which many of the florists are among the most prominent members. The outing is to be held at a nearby resort and the day is to be enlivened with many athletic contests to the winners of which substantial prizes are to be awarded. Among the contributing florists are Fred H. Kramer and Gude Bros. Co., each of whom have donated a $5 box of cut flowers, J. H. Small & Sons will give a $5 palm, and O. A. C. Oehmler, a $3 box of cut flowers.

St. Louis—Quite a lot of damage was done around here by the wind, hail and rain storm of Tuesday, May 5. Those who suffered loss of glass were John Held, Schray & Sons, Meier Bros., Chas. Beyer and Frank J. Fillmore. The heaviest loss fell upon John Held, who lost in all 300 lights of glass. The heavy wind and lightning caused some damage to trees in parks in the south end.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns

Are Thoroughly Covered by

SCHILLER, THE FLORIST

(Member Florists Telegraph Delivery).

Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of

GEORGE ASMUS, Mgr.

2221-2223 W. Madison St., CHICAGO.

'Phone West 822

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

P. McKENNA & SON

(Established 1851.)

770 St. Catherine St., West

MONTREAL, CANADA

We give Special Attention to Telegraphic Orders

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

Stamford Seed & Nursery Co., 43 Atlantic St.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

HOW ABOUT IT?

Memorial Day, June Weddings,
School Graduations and Festivities Many

Will be in line for the next six weeks. *Are You Ready With the Goods?*

It will be a profitable wind-up for the season if you handle it well. We have the goods you will require, up-to-date in fashion, satisfactory in quality and price

H. BAYERSDORFER & CO.

The Florists' Supply House of America, 1129 ARCH ST., PHILADELPHIA, PA.

THE WHITE HOUSE WEDDING.





The State apartments of the White House were a mass of color on the occasion of the fourteenth wedding ceremony performed in the Executive Mansion when Miss Eleanor Randolph Wilson, daughter of the President and Mrs. Woodrow Wilson, became the bride of William Gibbs McAdoo, Secretary of the Treasury. Large quantities of dogwood blooms, American Beauty and Killarney roses and lilies were used. The ceremony was performed in the blue room where lilies, palms and ferns formed the chief decoration. The priedieu was flanked by great palms which sloped toward the floor at either end. At either side of the chancel were large vases of lilies and between the windows were streamers of white satin ribbon. The mantels in this room, as in the east room, were decorated with huge clusters of lilies, and on tables in the latter room were large standards of dogwood blooms. Standards of American Beauty roses were used in the alcoves along the corridor, while vases of pink and white roses adorned the tables where the wedding supper was served. These flowers were also used on the mantels, and in the red room were clusters of American Beauty, pink Kilarney roses and dogwood, forming the decorations in the green room.

The bride carried a huge shower of white orchids and lily of the valley tied with white satin ribbon and gauze, on which was embroidered designs, with long streamers reaching almost to the hem of her gown, which were decorated with lily of the valley and orange blossoms. The flower girls, Miss Sallie McAdoo, and Miss Nancy Lane, wore hats trimmed with Japanese crab-apple blossoms, orchid flowering sweet peas and ferns, with large bows of white satin ribbon. Prince de Bulgarie roses were used to decorate the shepherds' crooks carried by the bridesmaids. The roses were tied with large bows of white satin ribbon and from these were long streamers similar to those used in the bridal bouquet, and trimmed with orange blossoms.

Unlike the wedding of her sister, that of the now Mrs. McAdoo brought very little business to the local florists for exceptionally few gifts of flowers were made. It was more of a family affair and not nearly so elaborate.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

UNITED REFRIGERATORS

Sell Flowers and keep them in best condition. All sizes Display Cases, Coolers, etc. Ask for Catalog X4.

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

BEAUTIES

$1.00 to $3.00 per dozen

Beauties are plentiful and of splendid quality. Mostly specials, stems 36 inches and over and they are the best for size and color,

GREEN LEUCOTHOES, LONG, 1000, $6.50
GREEN LEUCOTHOES, 12 IN. LONG, 1000, $3.00

The Leo Niessen Co.

WHOLESALE FLORISTS

N. W. Corner 12th and Race Sts., PHILADELPHIA

Mention HORTICULTURE when writing.

Order Your Memorial Day Flowers, Plants and Supplies Early.

Get Your Young Stock Now, to Grow On for Next Season.

All Choice Plants, Seeds and Roots may be procured from the Advertisers in this Paper.

THE BEST LETTERS FOR FLORIST'S USE — THOSE MADE BY THE

Boston Florist Letter Co.

66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.
Order direct or buy from your local supply dealer. Insist on having the
BOSTON
Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI May 11	CHICAGO May 11	BUFFALO May 11	PITTSBURG May 11
Am. Beauty, Special	20.00 to 25.00	25.00 to 35.00	..... to 25.00	20.00 to 25.00
" " Fancy and Extra	12.50 to 15.00	15.00 to 25.00	15.00 to 20.00	12.00 to 15.00
" " No. 1	8.00 to 10.00	12.00 to 20.00	8.00 to 15.00	6.00 to 10.00
Killarney, Extra	6.00 to 8.00	6.00 to 10.00	6.00 to 8.00	8.00 to 10.00
" Ordinary	3.00 to 5.00	2.00 to 5.00	3.00 to 5.00	3.00 to 6.00
Richmond, Hillingdon, Extra	6.00 to 8.00	6.00 to 12.00	6.00 to 8.00	8.00 to 10.00
" " Ordinary	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	3.00 to 6.00
Maryland,,Ward,Taft,Sunburst, Ex.	6.00 to 8.00	6.00 to 10.00	6.00 to 8.00	8.00 to 10.00
" " " " Ordinary	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	3.00 to 6.00
Russell, Shawyer	..... to	..... to	. to	..... to .....
Carnations, Fancy	3.00 to 5.00	3.00 to 4.00	2.25 to 3.00	..... to 3.00
" Ordinary	2.00 to 3.00	2.00 to 3.00	1.50 0 2.00	..... to 2.00
Cattleyas	..... to 50.00	40.00 to 50.00	40.00 to 50.00	25 00 to 40.00
Lilies, Longiflorum	8.00 to 12.50	6.00 to 10.00	6.00 to 10.00	6.00 to 8.00
Callas	8 00 to 10.00	5.00 to 8.00	6.00 to 10.00	. . to 6.00
Lily of the Valley	..... to 4.00	3.00 to 4 00	3.00 to 4.00	2.00 to 4.00
Wallflower	..... to	. .... to	..... to	..... to .....
Snapdragon	3.00 to 6.00	5.00 to 8.00	4.00 to 7.00	4.00 to 8.00
Daffodils	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	..... to .....
Tulips	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	2.00 to 4.00
Pansies	.75 to 1.00	1 00 to 1.25	.30 to .50	..... to .50
Mignonette	4.00 to 6.00	3.00 to 5.00	2.00 to 4.00	2.00 to 4.00
Daises, white and yellow	.35 to .75	1.00 to 1.25	1.00 to 1.50	1.00 to 3.00
Sweet Peas	.35 to .75	.75 to 1.50	.50 to 1.00	.50 to 1.00
Lilacs, per bunch	.25 to .35	.25 to .50	..... to	..... to .....
Gardenias	..... to	25.00 to 30.00	..... to	..... to .....
Adiantum	.. ... to 1.00	1.00 to 1.25	.50 to 1.25	..... to 1.25
Smilax	..... to 12.50	12.00 to 15.00	..... to 15.00	15.00 to 20.00
Asparagus Plumosus, Strings (100)	..... to 50.00	40.00 to 60.00	40.00 to 60.00	40.00 to 50.00
" " & Spren. (100 bchs.)	20.00 to 25.00	35.00 to 50.00	35.00 to 50.00	40.00 to 50.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

CHICAGO CARNATION CO.

A. T. PYFER, Manager

30 East Randolph Street, CHICAGO, ILL.

Wired Toothpicks

Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing

PETER REINBERG

WHOLESALE CUT FLOWERS

37 RANDOLPH STREET - - - - CHICAGO, ILL.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON Trade is quiet as is easily seen by a tour through the wholesale flower markets at any hour of the day. Roses are moving very slowly. Carnations are down to bed rock again after soaring on Friday and Saturday morning preceding Mothers' Day. The break came on Saturday afternoon when stock which was held at $6.00 in the morning was freely offered at $3.00 and takers were very few. The counters and ice boxes are loaded down with cold-frame lily of the valley, narcissi, tulips, etc. Roses are holding their price fairly well but, as before said, they are disposed to accumulate. Hadley and Mrs. Russell command prices about equal to American Beauty according to grade. Lilies have become rather scarce again after the post-Easter deluge. Sweet peas are very plentiful and not extra good and they drag badly in the wholesale marts on account of the cold rainy weather which has put an embargo on the street fakers who are a big help in unloading these and other corsage flowers when pleasant weather brings out the saunterers and shoppers. Snapdragon is seen in all grades of quality, but all move very slowly.

BUFFALO The past week has been quite a satisfactory one. The receipts have been quite heavy on roses, but sales were better than for weeks previous. Beauties continue in good supply and there is a better outlet. Mothers' Day was a good helpout. The demand on carnations increased from Thursday on, especially on white, on which there was no oversupply, but good clean sales. Colored carnations, too, went well, also peas and other stock shared in the demand. Out-door material is coming in, but has not had any telling effect on the other stock. Good ferns are still on the scarce side.

CHICAGO A fair supply of stock and prices that were above rather than below a fair average, made the past week's business an unusually good one for May. It is not likely that one-half the carnations sought in this market were obtainable for Mothers' Day and there was less difficulty in turning orders to other stock than when it was first tried in earnest last year. So successfully was this done that roses, including American Beauties sold out on Sunday, and Monday morning found the market full of buyers. A cold rain reduced the supply of flowers and Tuesday found little to offer. Peonies are the newest offering, some pink and red varieties coming up from Carbondale, Ill., which, however, are not selling rapidly at $1 per dozen. Roses went up to $10 and $12 on Mothers' Day with no difference as to color. White brought the top price in carnations which was $10 though regular customers had their tickets made out at six. Lily of the valley is much in demand, the wedding season commencing early and the tendency being to use plenty of flowers. In cattleyas, Mossiae are most in evidence, but as a whole the demand is good and the supply small. Parrot and "snake" tulips are both offered in quantity. Snapdragon in excellent quality and beautiful colors, white and purple lilacs, baby gladioli, iris, snowballs, foxglove, calendulas and forget-me-not, all give variety for selection. Sweet peas are again shortening in supply and prices higher.

CINCINNATI The demand for Mothers' Day proved a great surprise. For the first time in many weeks did it

(Continued on page 747)

KILLARNEY BRILLIANT

If you have not already bought Killarney Brilliant, we believe you are making a business mistake in not getting this splendid money maker. We have a very choice lot, both own root and grafted, for immediate delivery.



CLEAN, STRONG, WELL GROWN ROSE PLANTS

2½ inch	Own Root 100	Own Root 1000	Grafted 100	Grafted 1000
Killarney Brilliant	$30.00	$250.00	$35.00	$300.00
Prince d'Arenberg	30.00	250.00	35.00	300.00
Ophelia	30.00	250.00	35.00	300.00
Mrs. Charles Russell			17.50	150.00
Fire Flame	12.00	100.00	17.50	150.00
Mrs. George Shawyer	12.00	100.00	17.50	150.00
Killarney Queen	7.50	60.00	12.50	120.00
Radiance	7.50	60.00	12.50	120.00
Hillingdon	7.50	60.00	12.50	120.00
Sunburst	12.00	100.00		
White Killarney	7.00	55.00	12.50	120.00
Pink Killarney	7.00	55.00	12.50	120.00
Maryland	7.50	65.00	12.50	120.00
Richmond	7.50	60.00	12.50	120.00
Kaiserin	7.50	60.00	12.50	120.00
Milady	9.00	80.00	17.50	150.00
Mrs. Aaron Ward	7.50	60.00	12.50	120.00
Mrs. Taft	7.50	60.00	12.50	120.00
Jonkheer J. L. Mock	7.50	60.00	12.50	120.00
Cecile Brunner or Sweetheart	12.00	100.00	17.50	150.00

AMERICAN BEAUTY, 2½ in., $75.00 per 1000

WHITE and PINK COCHET, 3-in., $6.00 per 100, $50.00 per 1000.

Write for prices on large quantities.

S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

PHILADELPHIA
1608-1620 Ludlow Street

WASHINGTON
1216 H Street, N. W.

NEW YORK
117 West 28th Street

BALTIMORE
Franklin and St. Paul Streets

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 14			ST. LOUIS May 11			PHILA. May 11		
Roses									
Am. Beauty, Special	20.00	to	25.00	20.00	to	25.00	20.00	to	25.00
" " Fancy and Extra	10.00	to	20.00	15.00	to	18.00	10.00	to	15.00
" " No. 1	4.00	to	8.00	8.00	to	10.00	3.00	to	8.00
Killarney, Extra	4.00	to	6.00	4.00	to	6.00	5.00	to	8.00
" Ordinary	2.00	to	4.00	2.00	to	3.00	1.00	to	4.00
Richmond, Hillingdon, Extra	6.00	to	8.00	5.00	to	6.00	5.00	to	8.00
" " Ordinary	2.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00	to	8.00	5.00	to	6.00	6.00	to	8.00
" " " " Ordinary	1.00	to	2.00	3.00	to	4.00	1.00	to	5.00
Russell, Shawyer	2.00	to	15.00	.....	to	.....	3.00	to	12.00
Carnations, Fancy	1.50	to	2.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50
Cattleyas	35.00	to	40.00	40.00	to	50.00	30.00	to	50.00
Lilies, Longiflorum	6.00	to	8.00	6.00	to	8.00	3.00	to	6.00
Callas	4.00	to	6.00	5.00	to	6.00	4.00	to	6.00
Lily of the Valley	1.00	to	2.00	3.00	to	4.00	2.00	to	4.00
Wallflower	1.00	to	2.00	.....	to	.....	.....	to	.....
Snapdragon	1.00	to	4.00	3.00	to	4.00	1.00	to	8.00
Daffodils	.50	to	1.00	.....	to	.....	1.00	to	2.00
Tulips	.50	to	1.00	2.00	to	3.00	1.00	to	3.00
Pansies	.25	to	.50	.....	to	.....	.10	to	.75
Mignonette	2.00	to	4.00	4.00	to	5.00	2.00	to	3.00
Dusies, white and yellow	1.00	to	2.00	1.00	to	2.00	.50	to	1.00
Sweet Peas	.20	to	.50	.25	to	.40	.10	to	1.00
Lilacs, per bunch	.....	to	.....	.....	to	.....	.25	to	1.00
Gardenias	6.00	to	12.00	.....	to	.....	4.00	to	15.00
Adiantum	.75	to	1.00	1.00	to	1.25	1.00	to	1.50
Smilax	12.00	to	15.00	12.00	to	15.00	20.00	to	25.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	45.00	to	50.00	.....	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	.....	to	50.00

FRESHNESS QUALITY PROMPTNESS

McALPINE & McDONALD

Wholesale Florists

256 Devonshire Street, - - - Boston, Mass.

Telephone Fort Hill 3630—3631

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENS SOLICITED
PHONE 608 609 MADISON SQ., NEW YORK

JOHN YOUNG
Wholesale Florist
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
Tel. 1593 5893 Mad Sq. 119 W. 28 St., New York

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
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ROSES AND CARNATIONS	Last Half of Week ending May 9 1914	First Half of Week beginning May 11 1914
American Beauty, Special	15.00 to 25.00	15.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	8.00 to 15.00
" " No. 1	3.00 to 8.00	3.00 to 8.00
Killarney, Extra	3.00 to 5.00	4.00 to 5.00
" Ordinary	1.00 to 2.00	1.00 to 3.00
Richmond, Hillingdon, Extra	3.00 to 5.00	2.00 to 4.00
" " Ordinary	1.00 to 2.00	1.00 to 2.00
Maryland, Ward, Taft, Sunburst, Extra	3.00 to 6.00	3.00 to 6.00
" " " " Ordinary	1.00 to 2.00	1.00 to 3.00
Russell, Shawyer	2.00 to 6.00	2.00 to 6.00
Carnations, Fancy Grade	4.00 to 8.00	2.00 to 4.00
" Ordinary	2.00 to 3.00	1.00 to 2.00

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Flower Market Reports

(Continued from page 745)

the market clean up at all well. Carnations first and then roses, naturally had the strongest call, but all flowers came in for some of it. It apparently, for a time at least, marked the end of an overcrowded market. The Mothers' Day supply was rather short of requirements. This week the supply on Monday and Tuesday were rather meagre. Roses and carnations easily cleaned up at the prevailing good prices, but the other offerings did not fare as well. Roses continue in good supply. The carnation market for the past week has been very tight. The lily market is still glutted, but the supply is not so excessively large as it was. Good outdoor tulips are coming into the wholesale houses. The first peonies have made their appearance and so far have sold well. Both lily of the valley and orchids can be obtained in quantity, but they are meeting with only a very ordinary call.

NEW YORK

The flower trade is again back in the rut of inertness after the brief revival and the low vitality is accentuated in its effect by the influx of outdoor spring bloom from local sources or from southern points. Some things have shortened up in supply for the time being and these are exceptional to the general situation in the matter of prices which, in the case of roses and lilies, have stiffened up a little and these will no doubt hold their own so long as there is no great surplus in sight. The market is actually flooded with outdoor lily of the valley, tulips, lilacs, daffodils and similar material, which naturally has a depressing effect on the situation while this inundation lasts. Carnations are very plentiful, although of fine quality, and the figures they command seem low after the brief boost for Mothers' Day, but as compared with previous years' records, they are not far out of the way. Gardenias are scarce and command good prices, but orchids find a very discouraging market. Smilax continues scarce. Adiantums very plentiful and new season hardy fern stock has been arriving abundantly from the south.

PHILADELPHIA

While the influx of flowers has not been so great as before still there is an immense lot of everything, and only the good demand has kept the market steady. Very moderate prices have prevailed all through. The Mothers' Day demand made an impression toward the end of last week and carnations made the usual jump, white going to about eight, other colors showing only a slight increase. The out-of-town demand for this occassion was equally as good if not better than the local. Colored flowers are being gradually brought into play, but this desirable change is very slow indeed, despite the strenuous advice of the commission men to the retailers to use better salemanship. We said eight for white carnations, but there was some salted stock that brought much less. They were "fresh cut" all right but they were "salted" just the same. White roses fared well especially in the shorter grades. Sweet peas were also favorites, the ladies favoring these for corsages. Greenhouse sweet peas are nearly over; there will be outdoor stock in about ten days. Lily of the valley is sluggish for shipping on account of there being a good deal of the outdoor product at outside points. Mountains of outdoor lilac. You see it everywhere, but it will be gone in a week; also many other outdoor shrub subjects. Lilies and callas are still far too plentiful. Asparagus plumosus is the best seller in greens. Dagger ferns of good quality old crop are scarce. The new crop will be ready about May 20. The outlook for next week is very good for flowers generally; as much of the catch supplies will be over and the staples will begin to hold more like their normal sway.

WASHINGTON

The glut of indoor stock is rapidly nearing an end and prices in the wholesale market during the past week were somewhat better than they have been. However, the outdoor blossoms are more than taking the place of what was a surplus of roses, carnations, etc. Carnations will shortly be off crop, according to nearby growers. The florists on Sunday last experienced a rush as far as carnations were concerned. The prevailing prices at wholesale were from $4 to $8 per hundred for the best quality stock. The increase in price applied only to white carnations, colored stock advancing but slightly above normal. In many instances it was found necessary to substitute gardenias after the supply of carnations was exhausted, but in both flowers the ruling price was $1 per dozen at retail. George H. Cooke sold out his entire supply of white carnations at 25 cents per dozen at retail as he said he would do, when speaking on the subject of Mothers' Day before the Florists' Club. On Saturday the wholesale and retail stores moved thousands of red and pink roses, these being the emblems of both the suffragettes and the anti-suffragettes. In the first instance they were worn by the participants in the suffragette parade and by their friends, while in the case of the latter they were worn in protest of the movement. There is now some little friction between the two factions in the matter of who has the prior right to the emblem.

ST. LOUIS

The local wholesale market is in about the same condition as reported in the last issue. Every thing is plentiful and at very low prices, except on Saturday, May 9, when the wholesalers went up on price of carnations. From four to six cents was asked for white carnations and from three to four cents for colored stock, owing to the Mother's Day demand. The wholesalers are looking for another heavy week in receipts. Roses are coming in bad shape, due to the hot weather and all other stock suffers likewise. All flowers are in great abundance, also everything in the green line. The plant trade has been heavy right along.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 9 1914	First Half of Week beginning May 11 1914
Cattleyas	15.00 to 25.00	15.00 to 25.00
Lilies, Longiflorum	5.00 to 6.00	5.00 to 6.00
Callas	5.00 to 6.00	5.00 to 6.00
Lily of the Valley	2.00 to 3.00	1.00 to 2.00
Wallflower	1.00 to 2.00	.75 to 1.00
Snapdragon	1.00 to 4.00	2.00 to 4.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Pansies	.15 to .25	.15 to .25
Mignonette	1.00 to 3.00	1.00 to 3.00
Daises, white and yellow	.50 to 1.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	6.00 to 8.00	6.00 to 10.00
Lilacs (per bunch) Southern	.. .. to .25	..... to .25
Gardenias	10.00 to 15.00	10.00 to 25.00
Adiantum	.50 to .75	.35 to .75
Smilax	16.00 to 25.00	12.00 to 15.00
Asparagus Plumosus, strings (per 100)	35.00 to 50.00	35.00 to 50.00
" " & Sprei (100 bunches)	15.00 to 25.00	15.00 to 35.00

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Geraniums: Nutt, Ricard, Poitevine, Viaud, Jaulin, La Favorite; Cannas; Aus-3½ in., $6.00 per 100. Blue Ageratum, Howard's Star Petunias, double Alyssum, white Marguerites, German Ivy, Salvia Bonfire, Coleus Verschaffelttii, G. Bedder, Queen Victoria, Firebrand, 3 in., $5.00 per 100. Achyranthes Lindenii, Coleus (4 colors), Dusty Miller, Alternanthera (red, yellow), 2½ in., $3.00 per 100. Dracaena indivisa, extra heavy, 6 in., $40.00 per 100. Vinca variegata, 3½ in., $8.00 per 100. Cash. F. SOKOL, Worcester, Mass.

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Chrysanthemums Rooted Cuttings.
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Plantlife.
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"Nico-Fume."
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IRIS

Eastern Nurseries, Jamaica Plain, Mass.
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IRRIGATION SPRINKLER

J. P. Campbell, Jacksonville, Fla.

In writing to Advertisers kindly mention Horticulture

IVY

J. Wm. Colflesh's Sons, Philadelphia, Pa.
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German Ivy, 2 to 2½ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

KENTIAS

Joseph Heacock Co., Wyncote, Pa.
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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

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Importer, Exporter, Growers, Hybridists,
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Otto Heinecken, New York City.
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PANSY PLANTS

500,000 field-grown Pansies in bud and bloom; grown from seed of my own raising and is the result of twenty years' careful breeding. $1.25 per 100; $10.00 per 1000. Cash, please. LEONARD COUSINS, JR., Concord Jct., Mass.

PEONIES.

J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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MacRorie-McLaren Co., San Francisco, Cal.

PHLOX

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Headquarters for Hardy Phlox.
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PHOENIX

Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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PLANT TRELLISES AND STAKES

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H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
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RAFFIA

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Breck-Robinson Nurseries, Lexington, Mass.
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A. A. MacDonald, Somerville, N. Y.
American Beauty Plants.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

SEED GROWERS

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"Seeds with a Lineage."
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Fottler, Fiske & Rawson Co., Boston, Mass.

SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED

Arthur T. Boddington, New York City.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties; 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

Celery Plants: Golden Self Blanching (French Strain), fine plants, ready now, $2.50 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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SHEEP MANURE.
Wm. Elliott & Sons, New York City.
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In writing to Advertisers kindly mention Horticulture

HELP WANTED

WANTED

Greenhouse Foreman on Private Place. Must be First Class Grower of Roses, Mums, Carnations and General Greenhouse Stock, of good personal habits and able to produce references to that effect. Wages $65.00 per month and room. Apply by letter only, enclosing copies of recent references, to

C. W. KNIGHT

Westbrook Gardens, Oakdale, L. I., NEW YORK

SITUATIONS WANTED

DO YOU NEED FARM HELP?

We have many able-bodied young men, both with and without farming experience, who wish to work on farms. If you need a good, intelligent, sober man, write for an order blank. Ours is a philanthropic organization and we make no charge to employer or employee. Our object is to encourage farming among Jews.

THE JEWISH AGRICULTURAL SOCIETY,
174 Second Avenue, New York City.

SITUATION WANTED as gardener, inside or out, on private estate. Life experience—fruit, chrysanthemums, orchids, etc. First-class references. Age, 38. English. Address "P." care HORTICULTURE.

SITUATION WANTED By college student in floriculture. Ready for work June 1. Address W. H., care of HORTICULTURE.

SITUATION WANTED—Englishman of good character and ability desires position as Head Gardener on private place. Address F. HILL, 5 Hidden St., Providence, R. I.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

FOR SALE—Retail and wholesale florist business, 3 greenhouses on leased land; 5 years to run with option to buy, houses were built up last year; good reason for selling; just step in and do business. Apply to PETERSEN, 79 Central Ave., Flushing, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

VISITORS' REGISTER.

St. Louis.—Julius Dillhoff of Schloss Bros. and Sam Seligman, New York; A. Miller of A. Henderson Co., Chicago; F. J. Farney of The Rice Co., Philadelphia.

Boston—W. Atlee Burpee and David Burpee, en route for Europe; Mr. and Mrs. A. B. Scott of Philadelphia and nearly the whole Burpee family to see W. A. and David off; W. R. Cobb, and Victor H. Morgan, representing Lord & Burnham Co., New York.

Chicago—August Swoboda, Omaha, Neb.; Martin Reukauf, representing H. Bayersdorfer & Co., Phila., Pa.; Messrs. Hermann and Freese, New Haven, Ind.; J. Streit, with S. A. Anderson, Buffalo, N. Y.; Harry Balsley, Detroit, Mich.

Philadelphia: Adolphus Gude and William F. Gude, Washington, D. C.; H. L. Holmes, Harrisburg, Pa.; M. Boks, Ghent, Belgium; J. F. Shader, Dorrancetown, Pa.; E. Howard Smith, Hazelton, Pa.; Chas. L. Schmidt and Miss Elsie Schmidt, Harrisburg, Pa. W. F. Thoms, Atlantic City, N. Y.; James Brown, Coatsville, Pa.; W. C. Langbridge, Albany, N. Y.; W. Maschmann, Hamburg, Germany.

A DAY WITH BURPEE.

As the old Irish toast has it:

"Come in the evening or come in the morning,
Come when you're looked for or come without warning;
Greetings and welcome you'll find here before you,
And the oftener you come the more we'll adore you!"

That's the feeling that everybody has when they're invited to Burpee's and that was the feeling of the members of the Poor Richard Club who turned out about one hundred strong for a day at Fordhook on the 7th inst. as the guests of W. Atlee Burpee The Poor Richards take their title from Benjamin Franklin's nom de plume. They are newspaper men mostly and it goes without saying that they are the salt of the earth in both brains and breeding, the flower of our civilization and always have the last word in a discussion. Thomas Martindale is one of the ruling spirit of the Club. The spacious acres of Fordhook were traversed and the horticultural operations carefully explained. Incidentally a visit was made to a neighboring institution—the National Farm School, presided over by Dr. John H. Washburn, where they each Jewish boys how to become farmers and gardeners.

The creature comforts were ably taken care of by Mrs. Burpee, the ideal hostess. She also made the best speech of the evening and even went so far as to help out Dr. Swartzlander when wits and roasters had him stampeded. Judge Yerkes proved one of the most entertaining speakers. Howard W. Earl, Burpee's first lieutenent was everywhere, quietly efficient as always. David Burpee was also a delightful feature of the festivities especially among the younger men. The popular advertising manager of the company W. F. Therkildson was also indefatigable in seeing that every guest was made at home and happy.

A rural band in big straws, red bandanas and long dustcoats were a source of much merriment between times. They also had three pipers in full highland costume who gave them marching tunes and dinner solos and break downs to their hearts' content. "The Cock O'the North" and "Bonnie Dundee," "Loch Lomond" and "Monymusk," "Macpherson's Farewell" and the "Marquis of Huntly," "Yankee Doodle" and "The Wearing of the Green" all came alike to them. They nearly blew their heads off and did'nt seem to mind it a bit. Heavenly music! Especially a little way off!

GEORGE C. WATSON.

CHICAGO NOTES.

T. Waters reports a brisk demand for cemetery wreaths of cycas and other prepared materials at Poehlmann Bros.

Frank Oeschlin returned Monday from a business trip to Philadelphia. He reports the season as much in advance of that here as was plainly shown in the condition of the shrubbery.

Michael Fink of the Flower Growers' Association, one of the standbys of the Chicago market, while working in his garden Sunday afternoon, fell, striking his head and cutting his face with his broken glasses. He was found in an unconscious condition by his wife and it was two hours before he regained consciousness.

LEMON OIL CO'S STANDARD INSECTICIDE

SOLUBLE IN WATER — NO ODOR — NO POISON

Guaranteed under the Insecticide Act, 1910. Serial No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider Black and Green Fly, Mites. Ants, Insects on Rose-bushes, Carnations, etc. without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint - - 25c; Pint - - 40c; Quart - - 75c
½ Gallon, $1.25; Gallon, $2.00; 5 Gallon Can, $9
10 Gallon Can - - $17.00

Dilute with water 30 to 50 parts

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct

Lemon Oil Company Dept. K
420 W. Lexington St., Baltimore, Md.
Directions on every package

IMP. SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses, Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL. $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO, BOSTON

The nursery season is being prolonged by the continued cold which averages about one week of winter to one day of spring. Heeled-in stock is all right but the enthusiasm of the customers is getting chilled. Though the season will be of greater length than the average, it is doubtful if the total sales will be larger or the net profits as large as in some other years.

The impression generally prevails that Mothers' Day is now on a permanent basis. With very little effort to push the sales of flowers and with an entire lack of large newspaper advertisements, the demand for flowers has increased till there is no question but that the day will now mean one to plan for, as for other florists' special days. Two causes, widely different, seem largely responsible for this change according to reports from both wholesalers and retailers. First, the inability of the growers to produce a greatly increased quantity of carnations for the one day and which was thought at one time to mean the doom of the day, but which really turned the demand into a broader channel. Second, the switching of the wearing of a flower "for mother's sake" to the use of bouquets, boxes or baskets in the observance of the day. Three years ago this day meant extra demand for carnations. This year it meant the sale at advanced prices of everything.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

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The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

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It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

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$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

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PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

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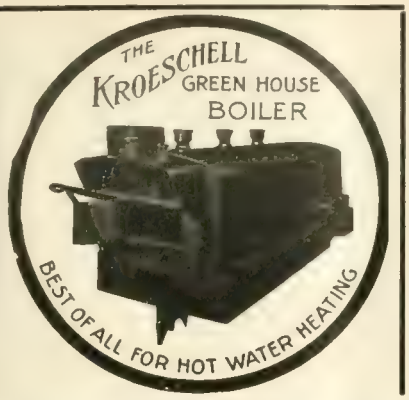
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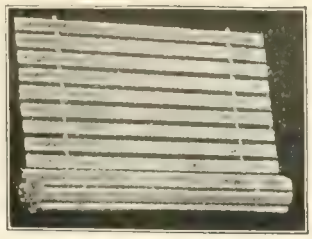
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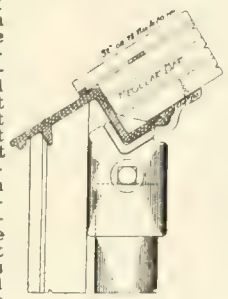
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OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

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Builds Good Greenhouses
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THE FOLEY GREENHOUSE MFG. CO.
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IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
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AFTER many years of experience in greenhouse work with Lord & Burnham Company, in the glazing and painting department, I am convinced that what is needed most is a good shading, and I am pleased to tell you that I have the real thing which you are all looking for.

My shading is beneficial to the painted wood, as it contains nothing but pure linseed oil; it is also beneficial to the glass. You will be surprised by the brilliancy left in the glass when the shading is removed. It is very easily applied by spray or a soft brush; I prefer the brush.

Made up in gallon cans. Colors; light green, blue and pure white. If you will give it a fair trial I am sure you will agree that it has proven its worth.

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GLASS
for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass in Greater New York** and can supply any quantity from **a box to a car load on a one day notice, and at Rock Bottom Prices.**
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The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
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Reasons for Our Slow Deliveries on Early Spring Orders of Alphano Humus

A FRANK STATEMENT

LET us tell you exactly what the uncontrollable conditions were, under which we have been laboring; and then we will leave it entirely to your sense of fairness if we haven't done all possible, under the circumstances.

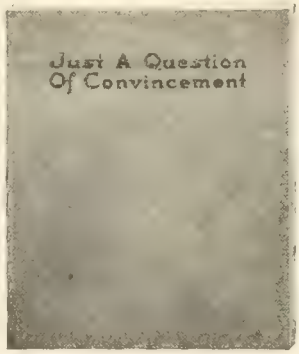
For ten years our salesmen, personally, have been selling large quantities of this Alphano, but last season was practically our first direct advertising of it. The way the responses came and orders followed, it was abundantly evident that we had a Plant Food and Soil Builder that was welcomed and wanted.

We sold bags, tons, carloads, and barge loads of it, as never before. Last winter we figured that this season a large number of these satisfied customers would come back for more, and that also many of their friends, learning of the results secured by using Alphano on lawns, shrubs, trees, and gardening in general, would likewise become customers; so based on this we spent many thousands of dollars increasing our facilities so that deliveries could be made promptly. As sanguine as we were, we frankly admit having underestimated the amount of the orders that developed.

To add to our embarrassment, the late snows and cold weather made people think Spring was never coming, and so they put off ordering three to four weeks later than usual. Then when the first warm days did come, in came the rush orders. As a result we but naturally became way behind on shipments. In the face of all this we received some pretty stiff letters and rather dynamic phone calls demanding explanations.

To show our absolute good faith, we voluntarily returned a good many dollars to those who, not knowing what we were struggling against, felt we were negligent.

Today (May first) our reports show that we have caught up on deliveries and although the plant is working full tilt, and overtime, our shipments from now will be prompt.



5 BAGS for 5

$12 a ton in bags—$8 by the carload, in bulk, F. O. B., Alphano, N. J.

Those of you who wanted the Alphano for gardening, and it came too late to spade directly in the soil, will find it works wonders when dug around the plants after they are up two or three inches.

As for shrubs, now is as good a time as any to use it. When it comes to lawns, any time is a good time. Put it on now and it will prevent the soil from baking, and the grass from burning this summer. It will induce a strong growth of fine, fibrous, dry weather-resisting roots. The Alphano absorbing and holding as it does such large quantities of moisture, further fortifies the grass against the coming hot sun and drying winds.

Being in powdered form the Alphano is easy to apply. Being ordorless it's at all times free from objection. To apply now, cut the grass, spread on the Alphano, rake it in, and in two weeks' time you will be surprised at the results.

Our records slows that during each month of June, July, August and September of last year, we sold more Alphano Humus for lawns than during any one of the Spring months. Let us know about how large your lawn is and we will advise how much you better order. If you have your Alphano, use it at once. If you haven't any left for your lawns, shrubs, and garden—order some.

If you have never had any, and are interested, but still unconvinced of its merits; send for our book of CONVINCEMENT. It tells what it will do for you, by both telling and showing what it has done for others.

Alphano Humus Co.

17 R Battery Place, New York City

Vol. XIX
No. 21
MAY 23,
1914

HORTICULTURE



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General Collection of Standard Varieties.



HARDY PHLOX

Albion (Medium). One of our own introductions; producing very large panicles of pure white flowers, with faint aniline-red eye.
Aglae Adanson (Medium). Large snow-white with violet-rose eye.
Antonin Mercie (Medium). Light ground color, upper half of each petal deeply suffused bluish-lilac, large white halo.
Bacchante (Tall). Tyrian rose, with crimson-carmine eye.
B. Comte (Medium). Brilliant French purple, with crimson-carmine shadings. 85 cts. per doz.; $6.00 per 100.
Bridesmaid (Tall). White, with large crimson-carmine centre.
Caran d'Ache (Medium). Geranium-red, with old-rose shadings and white eye; very effective.
Champs Elysee (Dwarf). A very bright rosy magenta.
Colibri (Tall). White, with crimson-carmine centre, very late.
Coquelicot (Dwarf). A fine pure scarlet, with crimson-red eye. 85 cts. per doz.; $6.00 per 100.
Danton (Medium). Scarlet, pure red eye.
De Miribel (Medium). White, suffused with bright rosy scarlet, red eye.
Diadem (Drawf). A fine dwarf, pure white.
Eugene Danzanvillier (Tall). Lilac, shading white toward the edges; large white centre.
Frau Dora Umgeller (Medium). Solferino red, shading to carmine-crimson at centre.
General Giovaninelli (Dwarf). Bright tyrian rose, with light shadings at the base of each petal, a pure red eye; very effective.
Goliath (Very tall). Rich carmine, shading to a deep centre.
Helena Vacerasco (Dwarf). Large pure white.
Henry Marcel (Medium). Pure red, with bright salmon shadings.
Henry Murger (Tall). White, crimson-carmine centre.
Henry Royer (Medium). Tyrian rose, with lighter shadings.
H. O. Wijers (Tall). White, with bright crimson-carmine eye.
Jeanne d'Arc (Tall). A good standard late white.
Jules Cambon (Medium). Bright rosy magenta, with large white centre and light halo.
Kucken (Medium). Bright carmine-rose shaded salmon.
La Vague (Medium). Pure mauve, with aniline-red eye.
Le Mahdi (Medium). Deep reddish-violet, with darker eye.
Le Prophete (Dwarf). Bright violet-rose, large light halo and bright rose eye; fine.
Louise Abbema (Dwarf). Very large dwarf, pure white, fine form.
Mme. Paul Dutrie (Tall). A delicate lilac-rose, reminding one of some of the beautiful soft pink Orchids.
Mozart (Tall). Ground color white, suffused salmon; aniline-red eye.
Mrs. Jenkins (Tall). The best tall early white for massing.
Obergartner Wittig (Medium). Bright magenta, with crimson-carmine eye; large flower and truss; one of the best.
Pacha (Dwarf). Deep rose pink, suffused with solferino-red and carmine-purple eye.
Pierre Bayle. Crimson-carmine, overlaid with orange scarlet.
Professor Virchow (Medium). Bright carmine, overlaid with orange scarlet.
Prosper Henri (Tall). Pure white, large decided rosy magenta eye.
Selma (Tall). Large flower, pale rose mauve, with claret-red eye.
Sunshine (Dwarf). Large, aniline-red with crimson-red eye and light halo.
Von Goethe (Medium). Tyrian rose suffused carmine-lake and bright carmine eye.
Von Lassburg (Medium). The purest white in cultivation, individual flowers larger than any other white.

Price. Any of the above varieties, except where noted otherwise, 75 cts. per dozen; $5.00 per 100; $40.00 per 1000.

New Varieties of Phlox

Asia. One of the most valuable recent introductions, a delicate shade of mauve, with a crimson-carmine eye.
Braga. Mauve-rose, more or less suffused with salmon; large white eye; a distinct and pleasing color combination.
Europa. A white variety with very decided crimson-carmine eye; the individual flowers as well as the trusses are very large, entirely distinct.
Manzelbrunner. A very large bright soft pink, with a large white eye.
Rynstrom. An improved form of the popular variety Pantheon; fine for massing, of a Paul Neyron Rose color.
Rosenberg. Bright reddish-violet, with blood-red eye, large truss and individual flowers as large as a silver dollar.
Rheinlander. A beautiful salmon-pink with flowers and trusses of immense size, the color of the flower is intensified by a very decided eye of a deep claret-red. 30 cts. each; $3.00 per doz.; $20.00 per 100.
Wanadis (Medium). Entirely distinct, a mottling of white and light violets, reminding one of Phlox Divaricata Canadensis. The color is intensified by a bright reddish-purple eye. 30 cts. each; $3.00 per dozen.
W. C. Egan. One of the best and largest flowering varieties in our collection, panicles of immense size, of a delicate pleasing soft shade of lilac which is illuminated by a large bright solferino-red eye. 30 cts. each; $3.00 per doz.; $20.00 per 100.
Widar. A splendid improvement on Edmond Rostand; in color a light reddish-violet, with very large white centre, which intensifies the color.
Tragedie. Deep brilliant carmine with blood-red eye. $1.50 per doz.; $10.00 per 100.

Price. Any of the above varieties, except where noted, $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

The prices quoted above are intended for the trade only.

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PALMS, AZALEAS, ETC.
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Bedding Out

A great many customers want their flower beds filled as early as possible, also vases, boxes and grave lots planted before Memorial Day so every effort should be made to get this work done. It will probably mean long hours for all hands, but then Memorial Day comes but once a year and we can stand it. Geraniums continue the leaders among bedding plants, and no other plant approaches them in popularity. The planting of these should be completed as soon as possible. It is an advantage to have a spell of cool, moist weather in which to set out these and other bedding stock, as it gives the plants a nice start and there is less danger of them being dried out. About every florist has a host of orders for bouquets to fill and a large variety of flowers can be used for this purpose. Crops of ten-week stock, double feverfew, snapdragons, gladioli, larkspur, candytuft, Spiræa japonica and lilies want careful watching. As the stocks of bedding plants become thinned out, take advantage of any spare time to get the remnants bunched up so as not to spread over a needlessly large bench space.

Growing Single-Stemmed Chrysanthemums

From now and up to the middle of June is the best time to propagate this line of stock. Provide good new sand as they are not so easy to root at this time of the year. Give them plenty of room in the cuting bed and see that they are well firmed around. Keep them shaded and watered and they will soon root. When they have roots, from about a quarter to half an inch long they should go into 2½-inch pots. Give them good soil from the start and always shift before they become potbound. For the last shift make the compost good and rich, anywhere from one-half to one-third of the bulk should be well-rotted cow manure with a good sprinkling of bone meal. Grow in a house where they can have plenty of light and ventilation.

Orchids

Oncidium varicosum Rogersii is the most popular of the florists' oncidiums and its long-branched spikes of golden yellow flowers are a great decorative feature in store windows in the fall. Give this oncidium plenty of air at all times during the summer months and, to insure an abundance of atmospheric moisture, wet down the benches, paths and walls three or four times daily during very hot and dry days. These orchids from now on should have sufficient shade to help keep down the temperature, but without excluding the indirect sun influence, for always they like plenty of diffused sunlight. To bring the plants through the summer in good condition keep the temperature as low as the outside condition will permit. Allow the plants to dry out occasionally so as not to let them get sour but don't let them remain dry for any length of time. The safest plan is to give them a dip in a tub of water two or three times a week.

Sweet Peas Under Glass

An abundant water supply, free syringing and ample ventilation are necessities where a late indoor crop is desired. Red spider must be kept off at all hazards and the water from a hose well directed is the one thing needful for this purpose. It will pay to give the glass a light shade, in order to somewhat lower the temperature and keep ventilators and the end doors wide open night and day. The best time to pick the flowers is early in the morning. It will pay to soak the ground well with the hose. If the space between the rows is well mulched, the moisture will be held in the ground a long time. Late sweet peas under glass are usually profitable in most parts of the country. Give them a fumigation about every ten days to keep them clean of fly.

The Compost Heap

We shall soon be filling the benches for chrysanthemums, roses and carnations where they are grown under glass in summer. The compost in addition to being freed from weeds, should be chopped down and turned over. Barnyard manure, added to it when cut and piled up, in the proportion of one load of fresh manure to two loads of sod, will after five months of progressing decomposition, change the proportion to one-fourth of partially decayed manure. So where you want it richer you can add to it when turning it over. This compost, to be right for immediate use after five months' standing, requires to be turned several times during that period, each time to be piled up again into flat heaps. The latter part of May is a strenuous one for all florists and it is difficult to adequately keep abreast of all work demanding attention. So do not put off this very important work but start now and see that it is done in a thoroughly good manner.

Resting Callas

Callas are now coming to the end of their flowering season and will need a good rest. This is brought about by withholding water for the next five or six weeks. Those that are grown in benches can be dried out until they lose their tops when they can be lifted and placed in some cool and dry place until wanted. When grown in pots you can place the pots outside, laying them on their sides, for the same period.

Mr. Farrell's next Notes will be on the following: Antirrhinums for Winter Flowering, care of Adiantums, Chrysanthemums, Asparagus plumosus, Tuberous-Rooted Begonias, Outside Work.

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Propagandists

Friends of horticulture who read the notes on the activities of the New Bedford Horticultural Society which appear in this issue will find much to approve and applaud in the practical work which this Society is doing so well. The New Bedford Horticultural Society is yet young, having been organized eleven years ago and it is particularly fortunate in its location among an intelligent and responsive community. All commercial florists, nurserymen, seedsmen and others whose prosperity is dependent upon the patronage of the flower and garden loving public should aid and support these local horticultural organizations with all their heart and soul for they are the best friends commercial horticulture has, fostering and developing the demand for every description of horticultural wares and products.

Convention Garden progress

Considerable space was devoted in our last week's issue to the preparations in progress in Boston to properly receive and entertain the Society of American Florists next August and we are now glad to be able to record rapid advancement within the past week in the work of laying out and planting the big Convention Garden which is destined to be so prominent a feature of the Boston meeting. A number of novel and imposing features have been decided upon in connection with this garden and entries for space have been coming in from many prominent nurserymen, seedsmen and plant dealers. It will be a constant hustle from now on until the planting has been completed and if there are any of our readers who have been thinking of entering exhibits of any kind but have not yet done so, they should realize that the time left for garden planting is now very brief. Every facility is now in working order for immediate and scrupulous attention to exhibitors' instructions.

Memorial Day

Another year has rolled by and once more we stand on the threshold of Memorial Day. The rapidly decreasing ranks of the veterans whose valor and patriotism this day was originally intended to commemorate remind us that it cannot now be very long before the inspiring and time-honored observance in which they are the central feature will have passed into history. Yet Memorial Day will remain, gathering new significance as one generation follows another on the scene and adds its record of willing self-sacrifice and loyalty to country, to home and fellowman. The occasion, however, apart from all its patriotic sentiment, comes at a time when the appeal of the flowers is irresistible and for this reason alone has an assured permanency. It has been the custom of all peoples from time immemorial to welcome the advent of spring and the floral outburst with some festival of rejoicing. The great cherry celebration in Japan is an impressive example which dates back to ancient times. With us the spring welcome finds expression in the lavish floral adornment of the last resting places of those we love and those we honor. In this great annual observance the florist must ever be a factor. No need to beseech and appeal to the public for support as has been thought advisable in the case of the stupidly managed Mothers' Day. Memorial Day will take care of itself and all the florist has to do is to be prepared. It is pleasant to read the reports from all sections that this year there is no scarcity of material and no incentive to advance prices on anything. Under such conditions any florist who takes advantage of his customers by attempting to exact an increased price for his goods or his work commits an act of business suicide.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Decoration Day

Growers that are situated on a good road where automobile traffic is quite heavy ought to get after some of the trade that goes past without stopping if they do not see any sign or other advertisement on the place. A neat sign costs very little when compared to the results that it will bring. The very first year ought to more than pay for it. There is no better time to start this than on or rather before Decoration Day as there are more people traveling on this day than any other day in the year. If you have never done business with the automobile traffic it will take a little time to work up the trade but it will not take very long. Give the people good stuff, and charge reasonable prices for it. Put it up in nice boxes and you will be surprised at the amount of business that you will be able to do. Make it a point never to sell bad or overblown roses to anyone, as people will remember that for years to come, especially tourists. You will forget the people, no doubt, as there are new people dealt with every day, but they will remember you, and remember you well. Have the place in good order, all clean, and that will impress the people a good deal. Any other business run slip-shod the way some florists' places are would last but a very short time. You will be surprised at the increased profits if you will spend a little time and money systematizing everything so that work can be done well and rapidly without the "fussing around" half a day to get to a job.

Use of Cracked Ice in the Boxes

Now the warm weather is here to stay see that there is a little cracked ice used in the flower boxes when they are shipped to the market in the morning. This will keep the roses fresh and nice and they will open hardly any. See that the ice does not come in contact with the buds as this would be very likely to spot them, and thus decrease their value.

Care of Wires and Stakes

When the houses are emptied, see that all the wires and stakes that are to be used again another season, are well cleaned and free from all pieces of old string and brush. These strings if allowed to remain on the wires will cause them to rust and they will then break very easily when they are stretched again in the fall of the year. Tie all the stakes in bundles of 50 and put them away where they will be handy to get when they are wanted and where they will not be ruined by having very heavy stuff piled over them. If there is a fairly dry place under the benches, better put them there, and then they will be right in the house where they were taken from. Use a machine to wind up the wires so that they will be free from kinks and will not be twisted and bent in all manner of shapes. A piece of cotton waste held in place by a nail, and soaked with oil will oil the wire as it runs to the winder if it is made to run right under this waste, and it will keep the wire from rusting, thus adding a few years more to its life. Stakes can be treated much the same way, and will repay well the extra amount of labor that is spent on this work.

The Center Braces

All the bench wire braces that are put up here and there should receive as much attention as the wires and the stakes. See that they are carefully put away so that they will be ready to be used again. The men will waste a good deal of time to make new ones next fall and there is no need of it as these will last a good long time yet, if they are cared for properly. Better put them somewhere in the shed, where they will not be disturbed until they are wanted again.

Washing the Houses

When all the earth is removed from the benches, and they are being washed out with the hose, it is a good time to wash off all the green scum that is bound to accumulate on the woodwork. This can be easily done now before it has a chance to dry on to the wood. If the houses are to be painted this summer, the paint will stick much better if all the dirt is removed. If all the wood and iron work will positively be painted, use a little caustic soda in the water that is used to wash off the wood work. This will loosen all the dirt, and make it easier to remove. It will also move some of the paint; that is why it should not be used if the houses are not to be painted the coming season.

Repair Work on the Benches

Do this well, unless you expect to tear out the benches to build new ones soon, and then of course they can be patched any way at all, to make them last the one season. It does not pay to patch up the benches with old half-decayed wood, and then have to patch it all over again. On good benches, put your repairs in so that they will stay for a while to come. Galvanized nails used will help to keep the bench from decaying, as you will find that the boards rot out around the nails first. Use nails sparingly, as they are not necessary, in the bottom of the bench, for the soil will hold the boards in their places. Use merely enough nails to tack the boards here and there so that they will not shift all over the bench when the soil is put in or is being taken out. Painting the ends of all boards, and also the cross-pieces will help to make them last. Do not think of using tar or creosote for that would be the end of your roses. No plants will thrive real well where there is tar around; even the smell of it will have a bad effect on them.

CLUBS AND SOCIETIES

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

This Society held its regular monthly meeting in Greenwich, Conn., Friday, evening, May 8th. A large attendance of members were present and five new members were elected. Summer and Fall Show committees reported progress. Letters from business houses and other friends of the Society were read, offering prizes toward the premium lists of both exhibitions. A communication from the Secretary of the National Association of Gardeners was read, and as the time was limited the communication was tabled until the next meeting when the matter of co-operation could be more thoroughly discussed.

We had the pleasure of the company of John K. M. L. Farquhar of Boston, who delivered a very interesting lecture on "Gardens" illustrated by stereopticon views, mostly colored. Italian gardens of the past and present were mostly described and it was very interesting to note that the architectural features that were so prominent in the olden times have given way greatly to the present day ideas of more flowers. Views of many famous gardens of the Old World were shown, as well as several views of the manner of growing crops by the producing class. The speaker prefaced his lecture with an interesting talk to the gardeners present, giving statistics regarding importation of horticultural stock, which has become necessary owing to the advancement of horticulture in America, and expressed the wish that gardening would rank as highly among the professions as it did in the olden times. He also called attention to the scarcity of really good men to fill many of the important positions that this advancement in horticulture has created. The speaker was accorded a heary vote of thanks.

The exhibition tables were filled to overflowing. A feature was the marvelous Spencer sweet peas, shown by Adam Patterson and Thos. Ryan. Cultural certificates were awarded to each. Jas. Stuart had a grand pair of caleeolarias which also received a cultural certificate and the same honor was accorded to Wm. Graham for a vase of Mrs. Russell roses. John Conroy for antirrhinums, A. Kirkpatrick for cattleya Schroederae and Wm. Graham for antirrhinum, highly commended. The remainder of the exhibits received votes of thanks as follows: Paul Dwenger, night blooming cereus, Jas. Linane, Calceolarias and gloxinias; A. Whitelaw, tulips; P. W. Popp, Laelia purpurata; W. H. Watermoulpi, carnation Brooklyn; Thos. Ryan, gladioli; Mr. McAllister, hardy flowers.

The next meeting, June 12, has been set aside as "Assistants' Night." There will be a competition open to assistant gardeners only, on center piece for the table, composed of outdoor flowers and foliage, to be arranged in the hall. The Michell silver and bronze medals will be awarded to the winners of 1st and 2nd honors. The Summer Show will be held on the Hospital grounds, at Portchester, N. Y., June 19-20. Schedules will be issued shortly.

P. W. Popp, Cor. Sec'y.

NEW BEDFORD HORTICULTURAL SOCIETY.

The regular monthly meeting of the New Bedford, Mass., Horticultural Society was held in Library Hall on Monday evening, May 11, and, in the absence of President Roy, William Keith presided. The schedules for the exhibitions were presented and approved, and are now ready for distribution upon application to J. M. Taber, Secretary. A pleasing report of the "Tree Planting Movement" was submitted showing a growing interest in this branch. Although not now a part of this society's efforts toward a general improvement along horticultural lines, the movement was started and fostered by them until the formation of a local branch of the Massachusetts Forestry Association, when the whole enterprise was surrendered to them. This year about 1200 trees will be planted by the Forestry Association and between 300 and 400 by individuals. A nursery consisting of 35,000 young trees has been established on city property adjoining the Pumping Station.

Another pleasing report came from the committee in charge of distribution of seeds to school children. This movement has been growing steadily and gives lively testimony to the increased interest in matters horticultural among the young. Four years ago the children purchased 14,000 penny packets of seeds while this year's subscription called for 45,000, an increase of 11,000 over last year. Prizes are offered to the amateurs scoring the most points for flowers or plants exhibited at the regular monthly meetings between now and November. An informal and interesting discussion followed on spraying.

Wm. F. Turner.

CONNECTICUT HORTICULTURAL SOCIETY.

The regular meeting of the society was held in the County Building, Hartford, on the evening of May 8. The pansy was on the program for this meeting, and John C. Willard and Louis Chauvy showed about 200 blossoms each. President Huss made an excellent exhibit of hardy shrubs and spring flowering plants. John Gerard, an old pansy expert, Niel Nelson, and George B. Baker were appointed judges and each exhibit was awarded a first-class certificate. President Huss gave an instructive and interesting talk on his exhibit, followed by Mr. Gerard, who dilated on the beauty of the pansy and elucidated on the art of judging this marvelously colored gem of flowers. The secretary read an article in the Gardeners' Chronicle of America, entitled: "Recent Progress in Hardy Garden by Arthur Herrington." The meeting was well attended. The annual Dahlia Show will be held on Sept. 23 and 24 this year.

Alfred Dixon, Sec'y.

Wethersfield, Conn., May 11, 1914.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The regular business meeting of the Club for May was omitted, and in its stead was held on May 14 an entertainment in the English Room of the Fort Pitt Hotel, which the members of the club attended with their wives and lady friends to the number of about 150. The speaker of the evening was Prof. Coggeshall of Carnegie Institute who recounted a trip made by him to the seacoast towns of South America. His address was illustrated by lantern slides, and to many of the members it was a revelation to see the beautiful, clean, up-to-date South American cities and an incentive to try to make our cities like them, for it seemed as though we had something to learn from them in the way of City Beauty. After the address we went to the supper room where we divided up in congenial little groups at the different tables, and as the collation drew to its close were entertained by lady soloists and a violinist.

An agreeable little entertainment, and such affairs serve to strengthen the bonds of good-fellowship that draw together the members of a Florists' Club, and while flowers are beautiful and good to look at, they are not more so than the wives and daughters, the sisters and the "friends" of the florists and it is good for our pride sometimes to know that we are so good looking a "bunch."

The regular monthly meeting of the Club will be held in June as usual.

H. P. Joslin, Secy.

NEW LONDON HORTICULTURAL SOCIETY.

The regular monthly meeting of the above society was held on the 14th inst. The rooms were filled with a quantity of plants and cut flowers. Stanley Jordan, supt. Harkness Estate, had a fine group of gloxinias and ferns. The gloxinias were all in 4-inch pots, and averaged 10 to 12 flowers to a plant. There were other exhibits of carnations from E. Robinson of the Plant estate. Narcissi and mushrooms from Alfred Flowers, and French hydrangeas from E. W. Clark, florist. E. Robinson spoke on the treatment of bulbs when received in the fall and Mr. Clark spoke on French hydrangeas. Tree Warden Henry Fuller called attention to the mutilating of the trees that had just been set out on the city streets.

H. Lickman.

Waterford, Conn.

CLEVELAND FLORISTS' CLUB

The Cleveland Florists' Club has outgrown its old meeting place on Detroit street. On Monday eve., June 8, the first meeting will be held in the new quarters at The Hollenden Hotel. The new rooms are centrally located, modern in heating, lighting, and ventilation and are more in keeping with the programs of the club than the old rooms were. An increase in membership, also in attendance is sure to follow this new move.

Frank A. Friedley, Secy.

THE VETERANS.

Every year they're marching slower;
Every year they're stooping lower
Every year the lilting music stirs the hearts of older men;
Every year the flags above them
Seem to bend and bless and love them
As if grieving for the future when they'll never march again.

Every year that day draws nearer
Every day the truth is clearer,
That the men who saved the nation from the severing southern sword
Soon must pass away forever
From the scene of their endeavor;
Soon must answer to the roll call of the angel of the Lord.

Every year, with dwindling number,
Loyal still to those that slumber,
Forth they march to where, already, many have found peace at last;
And they place the fairest blossoms
O'er the silent mould'ring bosoms
Of the valiant friends and comrades of the battles of the past

Every year grow dimmer, duller,
Tattered flag and faded color;
Every year the hands that bear them find a harder task to do.
And the eyes that only brightened
When the blaze of battle lightened,
Like the tattered flags they follow, are grown dim and faded, too.

Every year we see them massing
Every year we see them passing;
Scarcely pausing in our hurry after pleasure, after gain;
But the battle flags above them,
Seem to bend and bless and love them,
And through all the lilting music sounds an undertone of pain.

—*Pittsburgh Leader.*

MINNEAPOLIS FLORIST CLUB.

A very interesting feature at the regular meeting of the Minneapolis Florist Club, May 5th, was the final report of the Executive Committee of the Minneapolis S. A. F. & O. H. Convention Association, of which the following is a synopsis:

All obligations against the Association have been paid, and all amounts due the Association have been collected, leaving a surplus of which the Committee recommend that a part be turned into the treasury of the Minneapolis Florist Club, and the balance set aside as a Reserve Fund.

"The purposes for which this Reserve Fund may be used from time to time shall be to meet initiatory and working expenses of flower shows or similar educational undertakings by the Club.

"To assist the club in such other undertakings as will be in the interest and to the advancement of the trades and the club in general.

"That a Board of Reserve Fund Trustees of five members be created now who shall work out a proper plan for the investment and safeguarding of such fund.

"In conclusion, your Executive Committee wishes to thank all members of the Convention Association and the Club for the willing and loyal support given them in the entire Convention work and program. We feel that, due to the splendid co-operation of all, the Convention has been a great success. It was the united and untiring work of all that made it possible to receive and entertain the National Society in the generally approved manner it has been our privilege and good fortune to do. The fact that we were not only able to meet all our financial obligations at the proper time, but that all our debtors have met their obligations towards our Association, is an indication that from a business point of view the Convention Association has been accorded the approval of all who had any dealings with it. It would therefore seem only proper and wise that we use the success achieved as a basis for similar work in the future.

"In creating a Reserve Fund as herein recommended, we will not only receive inspiration to further similar undertakings, but also have the means to launch them without having to first call on the financial support of the Club and individual members. We have now a nucleus for a good fund, something to build on, and we should make good and careful use of this splendid opportunity."

By unanimous vote of the members of the club, the report was adopted, and the following members were elected to serve as Trustees of the Reserve Fund: Theodore Wirth for 5 years, W. D. Desmond 4 years, Hugh Will 3 years, C. N. Ruedlinger 2 years, C. F. Rice 1 year.

The Convention Association was then dissolved and the thanks of the club were voted to Chairman Wirth for his untiring energy and wonderful executive ability which was of inestimable value in carrying through the work of the association to a successful termination.

The thanks of the club were also voted to John S. Mitchell for the very able manner in which he handled the finances of the committee and he was unanimously elected an honorary member of the club.

J. G. TAYLOR, Secretary.

ST. LOUIS FLORIST CLUB.

The meeting of this club on Thursday afternoon, May 14th, was well attended considering the busy planting season, all the officers and twenty-five members being present. Communications from Secretary John Young, the Chicago Florists' Club and others, were read and acted upon. State Vice-President R. J. Windler of the S. A. F. reported that he would issue a call to all S. A. F. members for June 11th to the meeting of the Florist Club. The trustees reported that they have completed arrangements for the club's 28th annual banquet. Hotel Jefferson has been selected and the date June 24th. The Trustees were instructed to arrange for the yearly picnic for florists and their families at the expense of the Club to take place the latter part of July. The Trustees were also made a committee to assist H. C. Dyer and the school children in securing plants and seeds to plant vacant lots in different parts of the city.

The Florists' and Gardeners' Club of Rhode Island, will meet hereafter on the fourth Monday evening of each month.

Houston, Tex. Receivership proceedings against the Henk Dirken Floral and Nursery Co., were begun May 12 in the Fifty-fifth district court by E. R. Schinzler, a former employe of the company and a minority stockholder. Schinzler contends that the company is indebted to him for $256.66 back salary.

AGAVE VICTORIA REGINA.





The accompanying illustrations are from two protographs of Agave Victoria Regina which were taken by L. G. Van Leeuwen at Cambridge, Mass., last week. Inquiries made at the Massachusetts Horticultural Society library revealed the fact that they had but one photograph, taken in Cambridge Botanical Garden in 1882. The evident scarcity of this plant may make the pictures worth reproducing here.

MEMORIAL DAY

We have superb stock timed exactly right for this occasion. Make your selection from the following and push along your order without delay.

Hydrangeas **50c.** to **$4.00** each. Spiræa Gladstone and Alexandra, **$4.00** to **$6.00** per dozen. Rambler Roses, pink and red, **$9.00** doz. Bedding Plants, all kinds. Palms **$1.00** up. Boston and Whitmani Ferns, **$6.00** doz. Cut Tulips, Gesneriana, bright scarlet, **$5.00** per **100.** Spiræa cut, **$4.00** per **100.**

WM. W. EDGAR CO., WAVERLEY. MASS.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

A well-attended meeting on Tuesday evening, May 19, was amply rewarded in the enjoyment of one of the best talks ever given before this club. A talk by Prof. Rane of the Massachusetts Department of Forestry had been promised, but this gentleman had been unexpectedly called to the Forestry Convention at Amherst and Secretary Bailey of the Forestry Department took his place most acceptably. The speaker was eloquent, impressive and entertaining in the highest degree. His topic was the forests of Massachusetts, the reclaiming of vast tracts of waste land by reforestation, the methods of taxing forest lands, the conservation of timber, fire control and the insect pest problem. He declared that there is nothing more conducive to good results than organization and paid a high compliment to the Boston Club for the spirit shown in so large and enthusiastic an attendance of members. The lecture was illustrated by many fine colored stereopticon views. Some excellent exhibits adorned the platform. W. N. Craig showed four varieties of French hydrangeas, also specimen Otaksas with enormous flower heads, tomato Listers' Prolific and English Mill-track mushrooms. Alex McKay brought a pair of standard Hydrangea Otaksa which were greatly admired, also plants of Calceolaria Stewarti. F. W. Fletcher showed antirrhinums.

TUXEDO HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held in the Parish House on May 13. The exhibition committee reported the schedule for the fall show in progress and that special prizes had been offered from the following firms: C. H. Totty, Bon Arbor Chemical Co., Scott Bros., Wm. F. McCord, Weeber & Don, Burnett Bros., Alphano Humus Co., A. N. Pierson, Inc., J. M. Thorburn & Co., John Wilk, Julius Roehrs Co., Henry A. Dreer. We expect to have the preliminary schedule out by the middle of June. We had as our guest Wm. Tricker, Arlington, N. J., who gave a very interesting talk on the culture of water lilies during the past 25 years and what gardeners are doing and what they have done for the water lily. Many questions were asked which Mr. Tricker answered promptly as there are few if any in this country who are so well versed on this subject. The society held its Ladies' Evening on April 16, when there were present over 100 gardeners, their wives and friends; a good program was gone through which was enjoyed by all present. The society holds its Annual Ball on May 29.

THOS. WILSON, Secy.

AMERICAN PEONY SOCIETY.

Representatives of the American Peony Society, Horticultural Society of Chicago and the Chicago Florists' Club held a meeting at the Hotel Sherman, Chicago, May 14, to complete arrangements for the great annual exhibition of the American Peony Society, which will be held in Chicago this year under the auspices of the above organizations. Those in attendance included Wm. A. Peterson, of the Peterson Nursery; Carl Cropp, of Vaughan's Seed Store; Arnold Ringier, of the W. W. Barnard Co., Thomas Wallis and M. Barker. The Art Institute was selected for the exhibition, which will be held June 12-13, this date being subject to change as weather conditions affect the local crop of peony flowers, making it earlier or later. Many experts will show their choicest novelties and standard sorts in their best form at the coming exhibition, which from all advance information obtainable will be the largest and most complete of its kind ever held in this or any other country. The most successful growers of peonies will tell about their methods in meetings to be held in connection with the exhibition.

C. W. Johnson, 2226 Fairfax avenue, Morgan Park, Ill., was appointed manager of the exhibition, and all inquiries referring to premium list, prizes, etc., should be addressed to him.

M. BARKER, Sec'y Pro Tem.

MAY FLOWER SHOW.

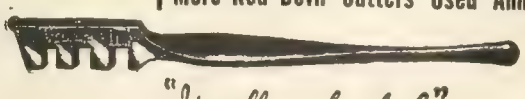
The May Flower Show of the Massachusetts Horticultural Society, held on Saturday and Sunday, May 16 and 17, was not as large as in previous years, but the quality of the exhibits was unusually good. The attendance of the public was large particularly on Sunday afternoon. Calceolarias were shown in fine form by E. A. Clark and Mrs. J. L. Gardner. Wm. Whitman was the principal contributor of narcissi and pansies. He also showed fancy pelargoniums. A collection of 36 varieties of scented leaved geraniums from H. S. Rand, attracted considerable attention and a certificate of merit was awarded. A silver medal was given F. W. Fletcher for Antirrhinum Nelrose and honorable mention to Miss Marion R. Case for double Anemone nemorosa. Other exhibits included Miss Cornelia Warren, Calceolaria Golden Gem; Mrs. J. L. Gardner, collection of orchids; E. A. Clark, pair laburnum in bloom; E. A. Clark, standard Hydrangea Otaksa; Mrs. J. L. Gardner, Gloriosa Rothschildiana; Thomas T. Watt, petunias; Mrs. J. L. Gardner, Clarkia Salmon Queen; Patten & Co., Carnation Princess Dagmar; Miss Cornelia Warren, carnations, poppies and gladiolus Blushing Bride; Mrs. M. W. Chadbourne, display of cut shrubs; Mrs. E. M. Gill, cut flowers; Lowthorpe School, Groton, cut flowers. There was an excellent display of vegetables.

A CHARMING ESTATE.

[A view in the water garden of this estate appears as cover illustration in this issue.]

The writer recently had the pleasure of a journey (with a big J) over the Converse estate at Marion, Mass., accompanied by Superintendent Roy. For nearly two hours he guided us from one point of interest to another until all realized that a wonderful development had taken place in the last few years in the eighty acres of the then undeveloped country comprising this estate. From the moment you enter the gate until you leave the grounds there is a continual panorama of changing scenes. Of special interest at this season one might mention the daffodil walk winding its way among beautiful oaks from the entrance to the greenhouses and massed on either side with innumerable groups of daffodils of various kinds. Emperor and Empress displayed wonderful adaptation to this location. Again one must not forget the glorious display in the formal garden where the eye is feasted

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The Sensational New Yellow CACTUS DAHLIA GOLDEN GATE

NO grower or florist can afford to ignore the wonderful Dahlia Golden Gate and be up-to-date. The public today craves for Dahlias for either garden or floral use and they simply go wild when they see the Golden Gate Dahlia in bloom.

Examine an old catalog of any of the large seed houses of say ten or more years ago, note the few varieties of Dahlias listed; not much doing in Dahlias at that time. By examining any of today's seed house catalogs, you will find several pages devoted to Dahlias; some houses issue special Dahlia catalogs, which all goes to show the great demand for this popular flower.

Look up any trade paper of Fall, 1913, see market quotations, compare Chrysanthemum prices of 1913 with prices of 1912, note low prices for 1913. Mr. Totty of Chrysanthemum fame, in his Presidential address before the members of the Chrysanthemum Society of America at Chicago, last November, stated that the public's demand for Dahlias caused the slump on 'Mums; result, 'Mum growers began to sit up and take notice of Dahlias. Watch them and growers of other kindred stock for the coming season. Why not follow suit? Start right! Plant Golden Gate Dahlia, the queen of them all. After having grown Dahlias twenty years for cut flowers and for the last five years have grown hundreds of novelties, we have yet to see a Dahlia that has the good qualities of the Golden Gate. Most of the visitors to our grounds last year were of the millionaire class, who, as a rule, grow all the Dahlia novelties; one and all declared the Golden Gate the most wonderful of them all.

John Lewis Childs
Flowerfield, L. I., N. Y.

Mr. Wm. A. Finger, Jr.
Hicksville, L. I.

Dear Sir:

From all appearances, up to the present time, you have in Dahlia Golden Gate one of the best varieties that have come under my attention. The character and habit are ideal, and the color is one of the richest I have seen.

Without a doubt you have one of the best Seedlings that have been raised in this or any other country, and I believe that there will be a great future for it.

Yours very truly,
I. S. Hendrickson

We wish to call your attention to the testimonial of Mr. I. S. Hendrickson, formerly President of the Gladiolus Society, whose world-wide experience and reputation as a bulb grower make his judgment very convincing. Mr. Hendrickson has been watching this Dahlia for years and was one of the first to book an order with us.

The Golden Gate Dahlia is insect and blight proof. They will bloom in spite of the tarnish bug, white fly, drought or mildew.

Testimonials sent on request, telling of the Golden Gate blooming alone among dozens and hundreds of other varieties that failed to bloom on account of the above causes. This Dahlia is to Dahlias what King Humbert is to Cannas, or the American Beauty is to Roses. Don't fail to try the Golden Gate this season, you will never regret it.

Price to the trade for field-grown tubers (not pot-grown), **$1.00 each postpaid; $2.75 for three postpaid; $10.00 per dozen.** No tubers sent out that do not show sprouts.

DISSEMINATED BY

LONG ISLAND DAHLIA GARDENS Wm. A. Finger, Jr. Prop. Hicksville, L. I., N. Y.

with a gorgeous display of about 8000 tulips, hyacinths and narcissi.

When we visit a greenhouse we naturally expect to see something exceptional and in this we were not disappointed. The real display house was that containing a full set of specimen plants of the new Hydrangea Hortensis. These plants in full bloom, augmented by magnificent specimens of pink and white spireas, made a sight not soon to be forgotten. The rose garden has been doubled in size and judging from the number of new varieties to be seen there will be an unusually fine display in June. An interesting feature of the rose garden is the summer house entirely covered with Dorothy Perkins roses. This house was built last fall, the roses moved in January with a ball of frozen earth and the long growths not shortened. At this time it looks as though the experiment would be very successful. WM. F. TURNER.

Cambridge, Mass.—John McKenzie, has leased his greenhouses on Whittemore avenue and will hereafter give his attention solely to his retail flower store at 1927 Massachusetts avenue. The lessees of the greenhouses are two Japanese who now have a business in Stoneham. One of them formerly worked at the Harvard Botanic garden. They will take possession June 15.

CATTLEYAS
Fresh Importations

MENDELII—Original Type, Special Lot.
SCHROEDERAE—Extras.
POPAYAN TYPE TRIANAT, Old Coast Variety, by case or dozen.
Write.

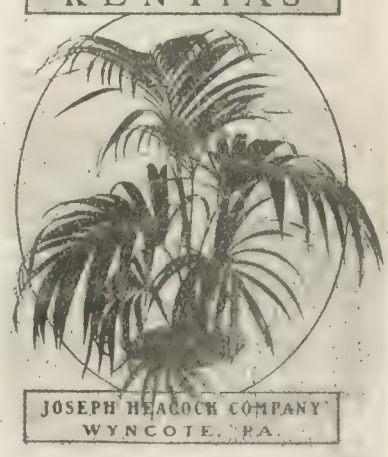
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FALL RIVER, MASS.

ORCHIDS FRESHLY IMPORTED

We have unpacked the following in fine condition. **CATTLEYAS:** Percivalliana, Gaskelliana, speciosissima. **DENDROBIUMS:** Formosum, Wardianum, nobile, densiflorum, Schuitzii. **VANDAS:** Coerulea, Batemannii, Luzonica, Imschootiana. **PHALAENOPSIS:** amabilis, Schilleriana. Spathoglottis plicata.
Write for Special List No. 55.
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EBEL AT THE BAT.

Editor HORTICULTURE:

I trust you will indulge us for another inning, for I do want to set your Philadelphia correspondent right on what is generally regarded as a union in the sense that it has been employed in our discussion. In referring to the "unionizing" of a profession, there was nothing mentioned to convey the impression that it pertained to the organization of a profession, but, that it meant, to unite it in the form of a union for the regulation of labor conditions. Using the word literally, the Bar Association is a union of members of the legal profession, just as the National Association of Gardeners may be considered a union of members of the gardening profession; but they are quite a contrary union to what the word generally implies when applied to organization. And the principles of the associations named are quite of a different order than those of most "unions."

Just another word on that wage scale. Now, why persist on making $50 appear as the standard of the gardeners' salary? For, should it reach the eyes of the estate owner he may take it seriously and some real harm may come of it. Candidly, at this present writing I find it impossible to fill several vacancies for assistants at $40 per month, including board and lodging. A comparison of mechanics wages at 62½c. per hour, with that of the gardeners' salary, is, as a well known Philadelphian would himself argue, "imcompetent, irrelevant, immaterial" and misleading, for the gardener's pay goes on, rain or shine, whereas, the best mechanic, working under a union wage scale, I am satisfied would discount his opportunity for the year at $15 to $18 per week. In fact many large estates employ the best of them at $15 per week.

The education of the estate owner, as to what should constitute a proper compensation for the efficient gardener is in motion, is gaining in momentum, and has already given evidence of bearing good fruit. But no organization, or union, will ever be able to dictate what shall, or shall not be paid. That must always remain to individual adjustment, as is the case with all professions.

Friend Watson, why confuse the issue and state that you never knew of any secrets within the N. A. G.? Of course you didn't, nor did any one else know of any, because there are none. The whole affairs of this association are probably more widly heralded than those of any other like body; and still there are members who profess that they do not know that we ever get together, even in the face of the publicity that comes to us.

I am glad that you concede that the transformation horticulture is undergoing is really a condition and not a theory, even though you charge it to an origination of the mind; but from where else could it emanate? Certainly without some condition of the mind progress would never be evolved, and there surely has been progress in all departments of horticulture since I have come into it. Now do not jump at conclusions hastily and hold me responsible for it, for I lay all the blame on a natural growth through an aroused interest on the part of our people in horticultural pursuits.

After all, no matter whatever views you, I, or others may finally entertain over our discussion, none will ever ascribe to us the words of Dante.

"Seated upon down
Or in his bed, Man cometh not to fame,
Withouten which, whoso his life consumes,
Such vestige of himself shall leave,
As smoke in the air, and in the water foam."

M. C. EBEL.

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FLOWERING, DECORATIVE and VEGETABLE

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Liberal Extras for Early Orders. Prompt Shipments

Size of Pots		100	1000
2½-in.	**ABUTILON Savitzii**, or 6 varieties mixed	$2.25	$20.00
2½-in.	**AGERATUMS.** Blue and white	2.25	20.00
2½-in.	**ALTERNANTHERAS.** Red and yelow	2.25	20.00
2½-in.	**ALYSSUM, Little Gem.** Large Giant	2.00	18.00
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3½-in.	**ASPARAGUS Plumosus**	8.00	75.00
2½-in.	**ASPARAGUS Sprengeri**	2.25	20.00
4-in.	**ASPARAGUS Sprengeri**	6.50	60.00
4-in.	**CALADIUMS, Elephant Ears**	8.00	75.00
	CANNAS. 50,000 3* and 4-in, in 28 varieties	5.00	45.00
2½-in.	**CENTAUREA, Dusty Miller**	2.25	20.00
2½-in.	**COLEUS,** in abundance, **Golden Bedder and Verschaffeltii**	2.50	22.50
2½-in.	**COLEUS,** in about 15 mixed fancy varieties	3.50	30.00
2½-in.	**CUPHEA, Cigar Plant**	2.25	20.00
2½-in.	**FUCHSIAS.** 12 good varieties, mixed	3.00	25.00
4-in.	**FUCHSIAS.** 12 good varieties, mixed	7.50	70.00
	GERANIUMS. 50,000 3½ and 4-in, 20 varieties: **S. A. Nutt, Grant, Ricard, Poitevine, Buchner, Montmartre, Perkins, Rosalie,** etc	7.00	65.00
2¼-in.	**MME. SALLEROI.** Good plants	2.25	20.00
4-in.	**HELIOTROPES.** White, light or dark blue	7.50	70.00
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4-in.	**MARGUERITES.** Fine plants, in bloom. White and yellow.	6.50	60.00
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2½-in.	**VERBENAS.** Separate colors, white, pink, purple, striped, etc.	2.50	22.50
4-in.	**VINCAS.** Variegated and green	7.00	65.00

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Strain Tests of Tomatoes.

Bulletin 129 of The Pennsylvania Agricultural Experiment Station is entitled "Strain Tests of Tomatoes," but the facts shown by it are applicable to other farm crops. The bulletin is a summary of a more extensive article which is being published in the Annual Report of the Station. It shows the variation in strains of six varieties of tomatoes. The test has in most instances, been conducted for four years and the figures given are the average. Thus variations due to seasonal conditions are largely eliminated. The tests have shown variation in yield between strains of a variety of more than thirteen tons per acre of marketable fruit. It likewise shows pronounced variation in the period of maturity. The author attributes these differences in yield to heredity rather than to environmental conditions, and emphasizes the importance of the factor in the production of farm and garden. The bulletin may be had free of charge by addressing the Director of the Experiment Station, State College, Pennsylvania.

Bridgeport, Ct.—William Willis has purchased the Currier Seed Store, 97 Wall street.

FARMING 156 YEARS AGO.

They may have been a little shy on woman suffrage and T. A. B. in those old days, but they knew the merits of clover, timothy and blue grass all right. Read this interesting ad:

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A Plantation generally known by the name of the great island, lying and being within about half a mile of the boroug of Bristol, in the County of bucks, and exactly opposite to Burlington. The island itself contains about two hundred acres of land, about one of which is bank madow and will be in the fall almost wholly in fine timothy, clover, and blue grass very well cleared, the other hundred acres on the island is pretty levell upland, about fifty-five acres of which is cleared, and fitt for clover fields, 20 acres of which is already put in clover and the rest may easily be made by fothering on it there is also about 40 acres more upland belonging to the plantation, which lyes just at the end of the bank, which is now almost all cleared, and will be plowed this summer, there is a good farm house on it, with a barn and stables, and a very neat milkhouse and granary, with a large garden and young orchard.

Any person inclined to rent the aforesaid plantation, may know the terms by applying to William M'Ilvaine, merchant in Philadelphia, near the corner of walnut street in front street.

Philadelphia, July 4th.

Note that blue grass was here then and it was not imported from Kentucky either, where many people suppose it is native. G. C. W.

CATALOGUES RECEIVED.

Colprit's Nurseries, Arlington, Mass. —Folder of timely nursery stock.

J. K. Alexander, East Bridgewater, Mass.—Catalogue of the Dahlias offered by the East Bridgewater Dahlia Gardens. A very full and up-to-date dahlia list.

Yokohoma Nursery Co., Ltd., Yokohoma, Japan, 1914-1915 Descriptive List of Plants, Bulbs and Seeds. Profusely illustrated and exceedingly interesting in its text matter. Typical Japanese cover, silk fastened and in bright colors.

Alonzo J. Bryan, Washington, N. J. —Wholesale Price List of Flowering, Decorative and Vegetable Plants. A business document for the trade, indispensable after you once get a copy. Send for it.

PUBLICATIONS RECEIVED.

Report of the Park Commissioners of Wilmington, Del., for the year 1913. With a population of about 90,000 Wilmington has a park area of 472 acres, one acre to each 195 inhabitants. The several full-page illustrations given in the report show that these public reservations are well cared for and well adapted to their purpose.

Tennessee State Board of Entomology. Vol. III, No. 1, of the Ninth Annual Report of the State Entomologist and Plant Pathologist. This 120-page pamphlet is a model of useful, practical literature. That the great agricultural and horticultural interests of the State of Tennessee are well cared for is well evidenced in the contents of this publication, every line of which is of direct value to the soil tiller, nurseryman and gardener.

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Duchess, White, rosy carmine; yellow eye	.60	1.00
Holborn Blue	.60	1.00
Kermesina Splendens. Crimson	.60	1.00
Rosy Morn. Pink	.60	1.00

Primula Obconica Gigantea

Lilacina. Pale lilac	.50
Rosea. Pink	.50
Kermesina. Deep crimson	.50
Alba. White	.50
Hybrida Mixed	.50

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Chicago, Ill. — I. Smith, 119 North Austin avenue.

Hillyard, Wash.—Mrs. L. E. Thornburgh, Post street.

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Allan.

Pretorian, Boston Glasgow..June 3

American.

New York, N. Y.-S'hampton..May 29
St. Paul, N. Y.-S'hampton...June 5

Atlantic Transport.

Minneapolis, N. Y. London...May 30
Minnewaska, N. Y. London..June 6

Cunard.

Laconia, Boston-Liverpool....May 26
Mauretania, N. Y.-Liverpool..May 26
Carmania, N. Y.-Liverpool..June 3

French.

France, N. Y.-Havre.....May 27
La Lorraine, N. Y. Havre ...June 3

Hamburg-American.

Cincinnati, Boston Hamburg June 2
Graf Wald'see, N. Y. H'mb'g..June 4
Imperator, N. Y.-Hamburg..June 6

Holland-America.

Rotterdam, N. Y.-Rotterdam..May 26
Potsdam, N. Y. Rotterdam..June 2

Leyland.

Canadian, Boston-Liverpool...May 30
Bohemian, Boston-Liverpool..June 6

North German Lloyd.

Kr. Wil. der Gr., N. Y.-Br'm'n.May 26
Bremen, N. Y. Bremen.....May 28

Red Star.

Vaderland, N. Y.-Antwerp....May 30
Kroonland, N. Y.-Antwerp ..June 6

White Star.

Adriatic, N. Y.-Liverpool.....May 28
Arabic, Boston-Liverpool.....May 26
Olympic, N. Y.-S'hampton...May 30
Baltic, N. Y.-Liverpool.....June 4
Majestic, N. Y.-S'hampton...June 6
Canopic, N. Y.-Mediterr'n'n ..June 6

NEWS NOTES.

Fulton, N. Y. — Theodore Foederer has leased the Dumas greenhouses and will grow stock to supply his store.

Worcester, Mass.—The store of the Worcester Conservatories has been acquired by Carl Everburg of Woburn.

Germantown, Pa.—C. H. Weidenbacker has purchased the retail establishment of John Kulp at Wayne Junction, and Germantown Ave.

Lititz, Pa.—C. S. Loeffler is going into the florist business. E. E. Kautz will have charge of two new houses which are to be constructed for carnations and sweet peas.

Bethlehem, Pa.—D. M. Goldberg of Philadelphia has purchased and taken possession of the stock and fixtures of Mrs. Minnie Haines Weber, florist, Broad street.

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Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
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New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—George M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and I St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW CORPORATIONS.

Los Angeles, Calif. — Los Angeles Cactus Nursery Company, capital stock, $25,000.

Jefferson, O.—Jefferson Greenhouse Company, capital stock, $10,000. Incorporators, L. J. McNutt, F. R. Loomis, C. H. Paine, H. J. Warner and B. F. Terry.

Chattanooga, Tenn. — Chattanooga Floral Company, capital stock, $5,000. Incorporators, J. L. Lindsay, C. W. Duffey, Carl Burke, J. R. Huff and F. Giddings.

Announcements are out for the wedding, on June 10, of Edmund J. Welch, eldest son of P. Welch, to Miss Anna Adeline Welch, daughter of Wm. Joseph Welch, at St. Patrick's Church, Roxbury, Mass.

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NEW YORK
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Members of the Florists Telegraph Delivery.

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M. RICE CO.
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L. L. MAY & CO.
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RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
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3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

WASHINGTON NOTES.

Decoration Day observance by the Fire Department of the District of Columbia last week brought considerable business to the local florists and one order alone was for ninety-six wreaths, placed with Gude Bros. Co. In addition to these there were the many individual tributes.

Hereafter hucksters and storekeepers who occasionally sell flowers at retail along with other commodities usually handled by them, will not be required to take out a license as a florist according to an opinion rendered by Corporation Counsel Syme. During the past month or so, a large number of men selling flowers have been arrested because of their not having the regular license of a florist.

The Senate, by a vote of 32 to 21, struck from the agricultural appropriation bill the item for the distribution of free seeds by the members of Congress. The vote came on an amendment to the House bill offered by the agricultural committee. In his remarks upon the clause, Senator Kenyon declared that the farmers of his district considered the distribution of free seeds as a cheap attempt to curry favor.

George Burnap, landscape architect of the office of public buildings and grounds, left this city last week for New York, from which place he will sail for Europe, he being under orders to visit Italy, France and Germany to inspect the famous parks and gardens in those countries, with a view to securing ideas for the development of the park system of the District of Columbia. His trip will keep him away from Washington for more than four months.

Dr. Beverly T. Galloway, who has been in the employ of the Department of Agriculture since 1888, has resigned as assistant secretary of the Department to become dean of the faculty of the Cornell College of Agriculture at Ithaca, N. Y. Dr. Galloway entered the service as vegetable pathologist. After two years in that capacity he was made chief of the bureau of plant industry. About two years ago, due to the hard work and close application he had given to his duties, his health broke down and he was sent upon a trip around the world to recuperate. He spent some little time in Japan, China and Siberia, making full reports on the agriculture of these countries. At the beginning of the present administration he was made assistant secretary of agriculture. Since the announcement of Dr. Galloway's resignation as assistant secretary considerable interest has been manifested as to the selection of his successor. Many names have been mentioned for the position, but Secretary Houston has refused to discuss the matter, the letter of resignation having not yet reached him. However, it is said that William A. Taylor, who suceeded Dr. Galloway to the position of chief of the bureau of plant industry, when the latter was promoted, has quite a good show.

Lincoln, Ill. — Carl Hembreiker has resigned his position at Gullett's greenhouse to enter partnership with his brother, Otto Hembreiker, who has purchased the West End Greenhouse. He has had charge of the rose department at Gullett's and his resignation will take effect about the first of June.

CHICAGO NOTES.

The People's Florist of 47th St., has given place to the Morton Park Florists, 5437 W. 25th St.

A. Wiegand is taking as a side line the sale of bead necklaces, made of flower petals in California.

Miss Laura White, for 15 years bookkeeper for C. A. Samuelson, is now with the Mead Cycle Co.

John Walters has retired from the active management of the West End Floral Co. at 4035 W. Madison street. John J. Freely will take charge.

Announcements are made of a new paper known as The Retail Florist, to be published by the Chicago retail florists. The first number is promised for May 23.

The placing of southern peonies in cold storage is practically over, though an occasional large shipment has to be disposed of in this way The quantity now in storage is approximately one-third of that of last year.

The Sunday Tribune had a picture of Virginia Poehlmann displaying her talent as a fancy dancer. Miss Virginia is the daughter of Mr. and Mrs. August Poehlmann and is frequently called upon to furnish entertainment at social events.

Phil Schupp calls attention to the fact that it is much more difficult to secure a good rose grower than a good grower of carnations, something worth considering by young men learning the business, or entering the horticultural departments in the colleges.

One of the oldest and most efficient growers in this locality is Richard Prescott, born in England. He is proud of his sixty years of active work and is now as he has been for thirty years, in charge of the Northrop place at La Grange, Ill., where his work is both that of private gardener and commercial grower. He is as enthusiastic as ever and is an example of the man who does not grow old as the years pile up.

J. A. Budlong finds it more to his advantage to grow roses than carnations and in his large plant he will next year reduce his range of carnations by six houses and increase the area of glass devoted to roses, accordingly. About six tried and true varieties of carnations, Mr. Budlong considers the right number and says the varieties must be those that the individual grower has found that he can grow the best. White Perfection, Enchantress, Winsor, Aristocrat, Victory and Afterglow are his.

A PUNGENT CRITICISM.

Aren't florists rather over-doing the matter in some directions? The demand for pinks for Mothers' Day and for McKinley Day has been worked up and encouraged by them until large numbers of our citizens are inclined to yield to the excellent impulse that originated the movements, and now when there is a tendency to observe the days the florists, not satisfied with the greatly increased demand which in itself would mean vastly increased profits, place almost prohibitive prices on their goods. They are taking the best possible way to kill out all desire to celebrate the occasions. The one thing in particular which the public resents is the suggestion that it is satisfied to be imposed upon.

Waltham (Mass.) Free Press

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

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New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

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P. McKENNA & SON

(Established 1851.)

770 St. Catherine St., West

MONTREAL, CANADA

We give Special Attention to Telegraphic Orders

CLEVELAND

A. GRAHAM & SON

5523 Euclid Ave.

Will take good care of your orders

Members of F. T. D. Association.

STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

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TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

HOW ABOUT IT?

Memorial Day, June Weddings,
School Graduations and Festivities Many

Will be in line for the next six weeks. *Are You Ready With the Goods?*

It will be a profitable wind-up for the season if you handle it well. We have the goods you will require, up-to-date in fashion, satisfactory in quality and price

H. BAYERSDORFER & CO.

The Florists' Supply House of America, 1129 ARCH ST., PHILADELPHIA, PA.

BOSTON NOTES.

The display of tulips in the Boston Public Garden, has been unusually good this year. Last Sunday the brilliant scene attracted many thousands of admiring visitors. The entire sweep of the garden presents a vision of loveliness from any point of view. The grass is in healthy condition, the walks have been resurfaced, the trees are sending forth their buds and leaves, and, as an innovation, an old-fashioned flower garden has been laid out, eighty feet in length.

The W. W. Edgar Company at Waverley, Mass., have a wide repute for the high quality of their product grown under the skilful management of Herman H. Bartsch. The accompanying picture shows one of their houses just before last Easter. No sooner is the Easter supply exhausted than the houses are filled up with stock for Memorial Day and just at present the display is as brilliant and tempting as it was at Easter time. We wager the prediction that the houses will be again emptied and once more filled up within ten days. Idle space is the abhorrence of the prosperous plant grower.

One mile of street or road will be planted to shade-trees at least seven feet in height, by the Massachusetts Forestry Association in the town or city which properly plants this spring the greatest number of shade-trees on its streets in proportion to its population based on the census of 1910.

For those who travel over the public highways of Massachusetts it will be some satisfaction to know that from the first of next January all brush cut along the roadways must be disposed of. The Association procured a law this year requiring all slash made in the future to be cleared away. This will beautify the roadsides and prevent many wasteful fires.

The "Forest Taxation" bill and the "State Forest" bill have each been favorably reported largely through the efforts of the Association, but they still need careful watching in the House and Senate.



An Easter Plant House at Waverley, Mass.

The gentlemen of the Burpee party from Philadelphia consisting of W. Atlee Burpee, David Burpee, W. Atlee Burpee, Jr., Howard M. Earl and Alex. B. Scott, accompanied by W. J. Stewart, visited the Arnold Arboretum on Friday, May 15 and spent several hours that they will never forget inspecting the attractions of that wonderful institution under the inspiring guidance of Jackson Dawson. Like the majority of the horticultural craft, outside of a limited number who have been privileged to visit this place in the past, the party from Philadelphia found a tremendous surprise awaiting them and it is safe to say that they will, every one, be frequent pilgrims to this Mecca of American horticulture. The pyruses were just bursting into bloom at the time and at this writing they make a picture full of spring glory. The Wilson novelties from China have made an excellent record of hardiness throughout the severe winter.

FLOWERS AND PARTISANS.

The Record protests against the abuse of floral emblems by parties and groups — suffragists, anti-suffragists and others. It was deemed of sufficient importance to be telegraphed from Washington that:

> During the afternoon Senator Weeks wore a red rose, expressive of his sympathy with the anti-suffragists.

That was on the occasion of the suffrage parade, and proper enough, as the custom has been established; but it is an ominous custom. Those who elect to believe in suffrage for women are not rightfully to be debarred from wearing red roses, nor are those who elect to oppose such suffrage rightfully to be debarred from wearing yellow jonquils, marguerites, etc. The red rose and the yellow jonquil mean no partisan affiliation, except on such special occasions as last Saturday in Washington, or a weak ago Saturday in this city. Flowers are for everyone, every day—if they can get them. Keep as near to that as possible. Beauty is not to be pre-empted.—*Boston Record.*

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

UNITED ICE MACHINES

For Florists and [illegible]
Hundreds in successful stores everywhere. Let us [illegible] economy. Ask for [illegible]

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

BEAUTIES

$1.00 to $3.00 per dozen

Beauties are plentiful and of splendid quality. Mostly specials, stems 36 inches and over and they are the best for size and color,

GREEN LEUCOTHOES, LONG, 1000, $6.50
GREEN LEUCOTHOES, 12 IN. LONG, 1000, $3.00

The Leo Niessen Co.
WHOLESALE FLORISTS
N. W. Corner 12th and Race Sts., PHILADELPHIA
Mention HORTICULTURE when writing.

Order Your Memorial Day Flowers, Plants and Supplies Early.

Get Your Young Stock Now, to Grow On for Next Season.

All Choice Plants, Seeds and Roots may be procured from the Advertisers in this Paper.

THE BEST LETTERS
FOR FLORIST'S USE — R — THOSE MADE BY THE
Boston Florist Letter Co.
66 PEARL ST. BOSTON
N. F. McCarthy, Mgr.
Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.
Order direct or buy from your local supply dealer. Insist on having the BOSTON
Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.
Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.
If interested, send us your name and address for our weekly price list.

WELCH BROS. CO.
AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS
BEST PRODUCED
226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI May 18			CHICAGO May 18			BUFFALO May 18			PITTSBURG May 18		
Roses												
Am. Beauty, Special	20.00	to	25.00	30.00	to	35.00	25.00	to	30.00	20.00	to	25.00
" " Fancy and Extra	12.50	to	15.00	20.00	to	25.00	15.00	to	20.00	12.00	to	15.00
" " No. 1	8.00	to	10.00	10.00	to	15.00	8.00	to	15.00	6.00	to	10.00
Killarney, Extra	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	3.00	to	5.00	3.00	to	5.00	3.00	to	5.00	3.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " Ordinary	3.00	to	5.00	3.00	to	5.00	3.00	to	5.00	3.00	to	6.00
Maryland,,Ward,Taft,Sunburst, Ex.	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " " " Ordinary	3.00	to	5.00	3.00	to	5.00	3.00	to	5.00	3.00	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	3.00	to	4.00	4.00	to	5.00	2.25	to	3.00	.....	to	3.00
" Ordinary	2.00	to	3.00	2.00	to	3.00	1.50	to	2.00	.....	to	2.00
Cattleyas	.....	to	50.00	40.00	to	50.00	40.00	to	50.00	25.00	to	40.00
Lilies, Longiflorum	8.00	to	12.50	6.00	to	10.00	6.00	to	10.00	6.00	to	8.00
Callas	8.00	to	10.00	8.00	to	8.00	6.00	to	10.00	.....	to	0.00
Lily of the Valley	.....	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Wallflower	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Snapdragon	3.00	to	6.00	4.00	to	8.00	4.00	to	7.00	4.00	to	8.00
Daffodils	1.00	to	2.00	1.00	to	2.00	1.00	to	2.00	.....	to	.....
Tulips	2.00	to	3.00	1.00	to	3.00	1.00	to	2.00	2.00	to	4.00
Pansies	.75	to	1.00	.50	to	1.00	.30	to	.50	.....	to	.50
Mignonette	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00	2.00	to	4.00
Daises, white and yellow	.35	to	.75	.75	to	1.25	1.00	to	1.50	1.00	to	3.00
Sweet Peas	.35	to	.75	.50	to	1.50	.50	to	1.00	.50	to	1.00
Lilacs, per bunch	.25	to	..	25	to	.50	.....	to	.....	.....	to	.....
Gardenias	.....	to	.....	25.00	to	30.00	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	1.00	to	1.25	.50	to	1.25	.....	to	1.25
Smilax	.....	to	12.50	12.00	to	15.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	40.00	to	60.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	20.00	to	25.00	35.00	to	50.00	35.00	to	50.00	40 00	to	50.00

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BOSTON FLOWERS
N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.
BOSTON'S BEST HOUSE

Wired Toothpicks
Manufactured by
W. J. COWEE, Berlin, N. Y.
10,000....$1.75. 50,000....$7.50. Sample free
For sale by dealers.

E. G. HILL CO.
Wholesale Florists
RICHMOND, IND.
Please mention Horticulture when writing

ROBERT J. DYSART
PUBLIC ACCOUNTANT AND AUDITOR
Simple methods of correct accounting especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED
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WHOLESALE CUT FLOWERS
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EDWARDS FOLDING BOX CO
MANUFACTURERS
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MICHIGAN CUT FLOWER EXCHANGE, Inc.
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON The market is very inactive this week. In fact, there is no market worthy of the name. Monday started off at a pretty fair pace but since then everything has been discouragingly dull. There is no item on the list that is not in supply beyond any present demand. Carnations are, perhaps, in the worst predicament. Very many are being picked every day and they are accumulating badly. Of course, Memorial Day will use up all that are fit to use, but it looks now as if there would be a lot of holdover stock that will be a dispiriting drag on an otherwise spic-and-span market. Daffodils are about finished and only the late flowering tulips, such as gesneriana, Darwins and some of the doubles are left. Sweet peas are badly overstocked. Outdoor lilacs will be all right for Memorial Day from present indications.

BUFFALO Weather conditions were bad, but business was generally good during the past few days, but the receipts have shortened considerably and the market has practically been cleaned up daily. The demand has been good on everything especially carnations, sweet peas, iris, baby gladioli, lily of the valley and daisies and prices have ruled good. The Beauty business has opened and the sales have been more satisfactory than for weeks previous. Lilies are still on the heavy supply list, but have taken well. There is no outdoor material to speak of except Poeticus narcissi and a few tulips. Home-grown lilac is expected soon.

CHICAGO The peony season is upon us. The early flowers are limited in quantity and many of the southern peony farms have yielded a much smaller supply than in former years. The chief difference will be in the cold storage offerings later on, as the home grown plants now give promise of the usual yield. Prices at this time are from five to eight cents. Carnations have recovered from the heavy demands of Mothers' Day and there are enough to go around, but prices hold firm. Roses are shortening up, partly because they are off crop and partly because of replanting. American Beauties are getting scarce especially in the best grades, but there are enough to meet all regular demand. New ferns from the south have appeared and are welcomed for local trade, for they sell for $2 while old ferns are twice that amount. They are yet too soft for shipping trade. Tulips from near-by points are keeping the market well supplied with much fine stock and in every variety. Lily of the valley is used up each day. Lilies are still a steady factor in the market and there is a good variety of miscellaneous stock. There is a good supply of daisies, always so much in demand at this time. Green seems in good supply everywhere.

CINCINNATI Practically all the stock coming into the market is cleaning up readily. The supply is good but not large and is meeting with a demand that is very active. The rose supply is adequate and mostly high quality, but some of the stock is badly mildewed. American Beauty receipts are normal and there is a good call for them. Good carnations all clean up each day. Fine iris and large gladioli have been added to the list during the current week. The sweet pea supply is easily more than sufficient for needs. Lilies are still somewhat in an oversupply but the glut has abated. Very fine callas and rubrum lilies are to be had. Lily of the valley are in a very large supply and of high quality. Orchids plentiful but find a rather ordinary market.

(Continued on page



PEONIES

We will have a good supply of Peonies for Memorial Day of the better kinds, the choicest quality.

$6.00 to $8.00 per 100. A few novelties at $10.00 and $12.00 per 100

Plenty coming in now, all colors. $8.00 to $10.00 per 100.

New Crop Dagger Ferns. Ready about May 20th to 25th. $3.00 per 1000 In lots of 10,000. $2.50 per 1000.

VALLEY. Special, $4.00 per 100; Extra, $5.00 per 100.

GARDENIAS.

	Doz.	100
Special	$3.00	$20.00
Fancy	2.00	12.50

CATTLEYAS 6.00 40.00

EVERYTHING IN RIBBONS. We carry one of the largest and most varied stocks in Ribbons pertaining to the florist business of any house in the country. If you have not received one of our new catalogues, advise us and we will mail you one at once.

S. S. PENNOCK-MEEHAN CO.

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NEW YORK
117 West 28th Street

BALTIMORE
Franklin and St. Paul Streets

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 21	ST. LOUIS May 18	PHILA. May 18
Roses			
Am. Beauty, Special	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	15.00 to 18.00	10.00 to 15.00
" " No. 1	4.00 to 8.00	8.00 to 10.00	3.00 to 8.00
Killarney, Extra	4.00 to 6.00	4.00 to 6.00	4.00 to 8.00
" " Ordinary	1.00 to 3.00	2.00 to 3.00	1.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 6.00	5.00 to 6.00	4.00 to 8.00
" " Ordinary	1.00 to 3.00	3.00 to 4.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 8.00	5.00 to 6.00	5.00 to 10.00
" " " " Ordinary	1.00 to 2.00	3.00 to 4.00	2.00 to 4.00
Russell, Shawyer	2.00 to 15.00	..... to	2.00 to 10.00
Carnations, Fancy	1.50 to 2.00	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Cattleyas	35.00 to 40.00	40.00 to 50.00	25.00 to 50.00
Lilies, Longiflorum	6.00 to 8.00	6.00 to 8.00	3.00 to 6.00
Callas	4.00 to 8.00	5.00 to 6.00	4.00 to 6.00
Lily of the Valley	1.00 to 2.00	3.00 to 4.00	1.00 to 4.00
Wallflower	1.00 to 2.00	..... to	..... to .....
Snapdragon	1.00 to 4.00	3.00 to 4.00	1.00 to 8.00
Daffodils	.50 to 1.00	..... to	..... to .....
Tulips	.50 to 1.00	2.00 to 3.00	2.00 to 3.00
Pansies	.25 to .50	..... to	..... to .....
Mignonette	1.00 to 3.00	4.00 to 5.00	2.00 to 3.00
Daisies, white and yellow	1.00 to 2.00	1.00 to 2.00	.50 to 1.00
Sweet Peas	.20 to .35	.25 to .40	.20 to 1.00
Lilacs, per bunch	..... to	..... to	.05 to .25
Gardenias	12.00 to 20.00	..... to	4.00 to 16.00
Adiantum	.75 to 1.00	1.00 to 1.25	..... to 1.00
Smilax	12.00 to 15.00	12.00 to 15.00	20.00 to 25.00
Asparagus Plumosus, Strings (100)	35.00 to 50.00	35.00 to 50.00	..... to 50.00
" " & Spren. (100 Bchs.)	10.00 to 35.00	15.00 to 25.00	25.00 to 50.00

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ROSES AND CARNATIONS	Last Half of Week ending May 16 1914	First Half of Week beginning May 18 1914
American Beauty, Special	15.00 to 25.00	20.00 to 30.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 20.00
" " No. 1	3.00 to 8.00	5.00 to 10.00
Killarney, Extra	4.00 to 6.00	4.00 to 6.00
" Ordinary	1.00 to .00	1.00 to 4.00
Richmond, Hillingdon, Extra	3.00 to 4.00	4.00 to 6.00
" Ordinary	1.00 to 2.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	3.00 to 0.00	4.00 to 8.00
" Ordinary	1.00 to 3.00	1.00 to 4.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 4.00	2.00 to 4.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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Flower Market Reports

(Continued from page 777)

NEW YORK A fair trade is reported from the wholesale districts, which is encouraging considering that the outdoor planting and bedding department claims the attention of the suburban florist almost to the exclusion of all other interests just now and already the preparations for Memorial Day are a disturbing factor in the daily routine. Stock cannot be said to be overplentiful. Some things that have had a leading part in loading down the market, such as spring bulb stock, are now past their power to help or to hinder. Outdoor lilacs are now at their height and will in due time be succeeded by the peonies. Gardenias are scarce and cattleyas are also shortening up. Lilies have got back to normal values as price quotations show. Smilax continues in short supply but adiantums are much too plentiful. Roses command a little better figure than they did last week. The quality has been good, generally, the cool weather favoring them much. Carnation quality is hardly up to recent standard.

PHILADELPHIA There was a good volume of business, especially towards the latter part of last week, but prices generally ruled low. This depressed standard of values was true of the higher grade of stock as well as in the shorts. Carnations fared rather better than other staples as the market was clear to start with after the Mothers' Day rush. But buyers could find all the good stock they wanted as low as two cents, which was quite a contrast from the previous week. Roses are tremendously plentiful. Local Beauties are now supplemented by some nice stock from Northern growers, which show marked color and finish. Russell and Sunburst are also very good. The supply of cattleyas has dropped off a little and with fair demand prices have hardened considerably. No change in the gardenia situation. Callas are fewer, but there is still a big over-supply of Easter lilies. The gladiolus market has been supplemented with some nice stock of the "baby" type, like Peach Blossom, Delicatissima, etc. Peonies are more plentiful and some of the choicer varieties are now appearing. Snapdragon and sweet peas of fine quality are in great supply. First cuts of blue cornflower now in.

ST. LOUIS The market is still almost overloaded with stock of anything in season. Demand has been rather slow which causes the surplus to pile up from day to day and prices have dropped greatly. Better trade is looked for this week, several large conventions and a number of social events being in prospect. For Decoration Day all outdoor stock should be very plentiful and no advance in prices is looked for.

WASHINGTON The flower market has been very puzzling and unstable during the past ten days. The heat forced the life out of the flowers one day and the cold held them back during the next three or four. All stock has moved fairly well, but prices continue low. Snapdragon at the present time is meeting with but a very moderate demand. The market for sweet peas has improved and the ordinary varieties are bringing up to $6 per thousand while Spencer type bring considerably more. Roses are quite plentiful and move well in small quantities at small prices. Heliotrope and gladioli form another addition to the usual stocks and peonies have just made their appearance.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 16 1914	First Half of Week beginning May 18 1914
Cattleyas	15.00 to 25.00	10.00 to 25.00
Lilies, Longiflorum	5.00 to 6.00	8.00 to 10.00
Callas	5.00 to 6.00	8.00 to 10.00
Lily of the Valley	1.00 to 2.00	2.00 to 3.00
Wallflower	..... to	..... to .....
Snapdragon	2.00 to 4.00	3.00 to 5.00
Daffodils	1.00 to 2.00	1.00 to 2.00
Tulips	1.00 to 2.00	1.00 to 2.00
Pansies	..... to	..... to .....
Mignonette	1.00 to 3.00	2.00 to 3.00
Daises, white and yellow	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	6.00 to 10.00	6.00 to 10.00
Lilacs (per bunch)	..... to .25	..... to .20
Gardenias	10.00 to 25.00	15.00 to 30.00
Adiantum	.50 to .75	.35 to .75
Smilax	12.00 to 16.00	10.00 to 16.00
Asparagus Plumosus, strings (per 100)	35.00 to 50.00	35.00 to 50.00
" " & Sprei (100 bunches)	15.00 to 25.00	20.00 to 35.00

WASHINGTON The flower market has been very puzzling and unstable during the past ten days. The heat forced the life out of the flowers one day and the cold held them back during the next three or four. All stock has moved fairly well, but prices continue low. Snapdragon at the present time is meeting with but a very moderate demand. The market for sweet peas has improved and the ordinary varieties are bringing up to $6 per thousand while Spencer type bring considerably more. Roses are quite plentiful and move well in small quantities at small prices. Heliotrope and gladioli form another addition to the usual stocks and peonies have just made their appearance.

PHILADELPHIA NOTES.

A careful survey of the peony farms in this locality by one of the leading distributors tends to the conclusion that there will be a good supply for Memorial Day, notwithstanding the lateness of the season. Of course a good deal will depend on the weather. If it continues bright and warm everything will be all right.

The Michell store was gay on the 14th and 15th inst. with a fine display of May flowering tulips. Prizes had been offered and the gardeners came out in good force and gave the public a fine idea of the possibilities of this magnificent class of flowers. Shows like this are good for horticulture and good for business. Hundreds of varieties were shown and were a revelation to most of the visitors in their wealth of form and color.

E. J. Fancourt of the Pennock-Meehan Co. just returned from a trip west, reports good trade all along the line and comments especially on the tremendous business being done in Pittsburgh, Cleveland and other cities, in celebrating Mothers' Day. All kinds and colors of both flowers and plants are used and the occasion is assuming such proportions as to compare with Easter. This in marked contrast with Philadelphia where some of the leading retailers have been openly hostile to the whole thing. Which may be good sense, but not good business.

Visitors:—W. G. Badgley of Badgley, Riedel and Meyer, N. Y. City; A. P. Dewar, representing R. & J. Farquhar & Co., Boston, Mass.; Joseph A. Manda, West Orange, N. J.

VISITORS' REGISTER.

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Chicago: Arthur Schutz, Hammond, Ind.; Miss Drake, Kenosha, Wis.; Jos. H. Hill, Richmond, Ind.; F. Rentschler, Madison, Wis.; Wm. Desmond, Minneapolis, Minn.; Benj. Flynn, Columbus, O.; W. S. Coggan, Battle Creek, Mich.

NEWS NOTES.

Woonsocket, R. I.—Wilfred H. Fly has purchased 50,000 sq. ft. of land on hardy plants and shrubs.

Bloomfield, N. J.—Jacob Hauck has purchased the greenhouses of J. J. Brozat, 49 Montgomery street.

New Haven, Ct.—The Elm City Nursery Company have secured two tracts of land at Woodmont for nursery purposes.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

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Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

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Aphine Mfg. Co., Madison, N. J.
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Nicotine Mfg. Co., St. Louis, Mo.
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J. E. Felthousen, Schenectady, N. Y.
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Aucuba japonica, bushy plants, 35c. to $2.50 each.
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McHutchison & Co., New York.
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Bobbink & Atkins, Rutherford, N. J.
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BAY TREES—Standard and Pyramids. All sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

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Breck-Robinson Nurseries, Lexington, Mass.
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John McKenzie, No. Cambridge, Mass.
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A. N. Pierson, Inc., Cromwell, Conn.
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J. B. Shurtleff & Son, Revere, Mass.
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Alonzo J. Bryan, Washington, N. J.
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Geraniums: Nutt, Ricard, Poitevine, Viaud, Jaulin, La Favorite; Cannas; Aus-3½ in., $6.00 per 100. Blue Ageratum, Howard's Star Petunias, double Alyssum, white Marguerites, German Ivy, Salvia Bonfire, Coleus Verschaffelttii, G. Bedder, Queen Victoria, Firebrand, 3 in., $5.00 per 100. Achyranthes Lindenii, Coleus (4 colors), Dusty Miller, Alternanthera (red, yellow), 2½ in., $3.00 per 100. Dracaena indivisa, extra heavy, 6 in., $40.00 per 100. Vinca variegata, 3½ in., $8.00 per 100. Cash. F. SOKOL, Worcester, Mass.

BEGONIAS

Storrs & Harrison Co., Painesville, O.
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BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

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Kroeschell Bros. Co., Chicago.
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King Construction Co., North Tonawanda, N. Y.
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Bobbink & Atkins, Rutherford, N. J.
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J. M. Thorburn & Co., New York City. Gladioli and Tigridias.
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Michell's Seed House, Philadelphia, Pa.
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Ralph M. Ward & Co., New York City. Lily Bulbs.
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A. T. Boddington, New York City.
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John Lewis Childs, Flowerfield, L. I., N. Y.
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A. Henderson & Co., Chicago, Ill. Lilium Giganteum.
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August Rolker & Sons, New York City. Holland and Japan Bulbs.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Chas. Schwake & Co., New York City. Horticultural Importers and Exporters.
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108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Elmer D. Smith & Co., Adrian, Mich. Chrysanthemum Novelties for 1914.
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Chas. H. Totty, Madison, N. J.
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Wood Bros., Fishkill, N. Y. Chrysanthemums Rooted Cuttings.
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Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c., $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

Chrysanthemums 50,000 rooted cuttings and plants from soil; leading market sorts. Write for prices. WM. SWAYNE, Kennett Square, Pa.

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20th Century Plant Food Co., Beverly, Mass.
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Thomas Roland, Nahant, Mass.
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Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

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John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—best cut-flower varieties and novelties. Send your list of wants to the largest Dahlia grower in the world. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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Woodrow & Marketos, New York City.
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Komada Bros., Philadelphia, Pa.
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Peirce Paper Flower Pot.
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John Lewis Childs, Flowerfield, N. Y.
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J. M. Thorburn & Co., New York City.
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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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A. T. Stearns Lumber Co., Boston, Mass
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Frank Van Assche, Jersey City, N. J.
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Pierson U-Bar Co., New York City.

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Foley Greenhouse Manuf. Co., Chicago, Ill.
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King Channel Gutter.
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Metropolitan Material Co., Brooklyn, N. Y.
Iron Gutters.

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Michigan Cut Flower Exchange, Detroit, Mich.
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Bobbink & Atkins, Rutherford, N. J.
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Breck-Robinson Nurseries, Lexington, Mass.
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Lord & Burnham Co., New York City.
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J. Wm. Colflesh's Sons, Philadelphia, Pa.

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Aphine Manufacturing Co., Madison, N. J.
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Lemon Oil Co., Baltimore, Md.
Standard Insecticides.
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Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
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Plantlife Co., New York City.
Plantlife.
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Kentucky Tobacco Product Co., Louisville, Ky.
"Nico-Fume."
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Eastern Chemical Co., Boston, Mass.
Imp Soap Spray.
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IRIS

Eastern Nurseries, Jamaica Plain, Mass.
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IRRIGATION SPRINKLER

J. P. Campbell, Jacksonville, Fla.
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IVY

J. Wm. Colflesh's Sons, Philadelphia, Pa.

German Ivy, 2 to 2½ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

English Ivy, Rooted Cuttings from soil, 75c. per 100; 6 to 12 in. long, $1.25, prepaid; 2½ in., 12 to 18 in., $2.50. CHAS. FROST, Kenilworth, N. J.

KENTIAS

Joseph Heacock Co., Wyncote, Pa.
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LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.

LILY BULBS

Chas. Schwake & Co., New York City. Horticultural Importers and Exporters.
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R. M. Ward & Co., New York, N. Y.
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Corp. of Chas. F. Meyer, New York City. Meyer's T. Brand Giganteums.
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McHutchison & Co., New York City. Berlin Valley Pips.
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Otto Heinecken, New York City.
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Godfrey Aschmann, Philadelphia, Pa.
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National Nurseryman Publishing Co., Inc., Rochester, N. Y.
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R. & J. Farquhar & Co., Boston, Mass.
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"NICO-FUME"

Kentucky Tobacco Product Co., Louisville, Ky.
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NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
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NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
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NURSERY STOCK

P. Ouwerkerk, Weehawken Heights, N. J.
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W. & T. Smith Co., Geneva, N. Y.
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F. E. Conine Nursery Co., Stratford, Conn. Large Evergreens.
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Framingham Nurseries, Framingham, Mass.
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August Rolker & Sons, New York City.
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Breck-Robinson Nurseries, Boston, Mass.
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Otto Heinecken, New York City.
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Eastern Nurseries, Jamaica Plain, Mass.
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Manning Nurseries, No. Wilmington, Mass.
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New England Nurseries Co., Bedford, Mass.

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Leonard Seed Co., Chicago, Ill.
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Jas. McManus, New York, N. Y.
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Lager & Hurrell, Summit, N. J.
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Julius Roehrs Co., Rutherford, N. J.
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Sander, St. Albans, England. Importer, Exporter, Growers, Hybridists,
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Freeman Orchid Co., Fall River, Mass.
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PALMS, ETC.

A. Leuthy & Co., Roslindale, Mass.
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Bobbink & Atkins, Rutherford, N. J.
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Robert Craig Co., Philadelphia, Pa.
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John Scott, Brooklyn, N. Y.
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Joseph Heacock, Wyncote, Pa.
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August Rolker & Sons, New York City.
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Otto Heinecken, New York City.
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PANSY PLANTS

500,000 field-grown Pansies in bud and bloom; grown from seed of my own raising and is the result of twenty years' careful breeding. $1.25 per 100; $10.00 per 1000. Cash, please. LEONARD COUSINS, JR., Concord Jct., Mass.

PEONIES.

J. M. Thorburn & Co., New York City.
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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHLOX

Eastern Nurseries, Jamaica Plain, Mass.
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Henry A. Dreer, Inc., Philadelphia, Pa. Headquarters for Hardy Phlox.
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PHOENIX

Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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King Construction Company, N. Tonawanda, N. Y. Shelf Brackets and Pipe Hangers.
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McHutchison & Co., New York City.
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Otto Heinecken, New York.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa. "Riverton Special."

RAFFIA

McHutchison & Co., New York City.
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REFRIGERATORS FOR FLORISTS

United Refrigerator & Ice Machine Co., Kenosha, Wis. United Ice Machines.
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Storrs & Harrison Co., Painesville, O.
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Robert Craig Co., Philadelphia, Pa.
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W. & T. Smith Co., Geneva, N. Y. American Grown Roses.
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W. H. Elliott, Brighton, Mass. Young Rose Stock of High Quality.

Bay State Nurseries, North Abington, Mass.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York City.
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Framingham Nurseries, Framingham, Mass.
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A. N. Pierson, Inc., Cromwell, Conn.
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Breck-Robinson Nurseries, Lexington, Mass.
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A. A. MacDonald, Somerville, N. Y. American Beauty Plants.
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Anton Schultheis, College Point, L. I., N. Y.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

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SEED GROWERS

Leonard Seed Co., Chicago, Ill.
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California Seed Growers' Association, San Jose, Cal.
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Braslan Seed Growers Co., San Jose, Cal.

SEEDS

Carter's Tested Seeds, Boston, Mass., and London, England. "Seeds with a Lineage."
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J. Bolgiano & Son, Baltimore, Md.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
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J. M. Thorburn & Co., New York City.
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Leonard Seed Co., Chicago, Ill. Peas, Beans, Radish and all Garden Seeds.
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Arthur T. Boddington, New York.
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S. Bryson Ayres Co., Independence, Mo. Sweet Peas.
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Loechner & Co., New York City.
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T. J. Grey Co., Boston, Mass. Seeds for Florists.
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S. D. Woodruff & Sons, New York. Garden Seed.
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Ant. C. Zvolanek, Lompoc, Cal. Winter Flowering Sweet Pea Seed.
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Stumpp & Walter Co., New York City.
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Burnett Bros., New York City. Seasonable Seeds.
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Stamford Seed & Nursery Co., Stamford, Conn.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Kelway & Son, Langport, England. Garden, Farm and Flower Seeds.
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Fottler, Fiske & Rawson Co., Boston, Mass.
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SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
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S. Bryson Ayres Co., Sunnyslope, Independence, Mo.
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VASES

N. F. McCarthy & Co., Boston, Mass. Cemetery Vases.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties; 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

Celery Plants: Golden Self Blanching (French Strain), fine plants, ready now, $2.50 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

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Quaker City Machine Co., Richmond, Ind.
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Pino-Lyptol Chemical Co., New York City.
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Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

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Albany Cut Flower Exchange, Albany, N. Y.
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The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

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Poehlmann Bros. Co., Morton Grove, Ill.
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CACTUS DAHLIA, GOLDEN GATE.

Long Island Dahlia Gardens, Hicksville, L. I., N. Y.
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KIL-WORM AND KIL-WEED POISON.

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SPRINKLING, IRRIGATING AND WATER SUPPLY OUTFITS.

Chas. J. Jager & Co., Boston, Mass.
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VINCAS.

William Capstick, Auburndale, Mass.
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WEBSTER'S NEW INTERNATIONAL DICTIONARY.

G. & C. Merriam Co., Springfield, Mass.
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"Here is Your Answer;" in
WEBSTER'S
NEW INTERNATIONAL
-THE MERRIAM WEBSTER

Even as you read this publication you likely question the meaning of some *new* word. A friend asks: "What makes mortar harden?" You seek the location of *Loch Katrine* or the pronunciation of *jujutsu*. What is *white coal?* This NEW CREATION answers all kinds of questions in Language, History, Biography, Fiction, Foreign Words, Trades, Arts and Sciences, *with final authority.*

400,000 Words and Phrases Defined.
6000 Illustrations.
Cost $400,000.
2700 Pages.

The only dictionary with the *new divided page*,— characterized as "A Stroke of Genius."

Write for specimen pages, illustrations, etc.

Mention this publication and receive FREE a set of pocket maps.

G. & C. MERRIAM CO., Springfield, Mass.



HELP WANTED

WANTED

Greenhouse Foreman on Private Place. Must be First Class Grower of Roses, 'Mums, Carnations and General Greenhouse Stock, of good personal habits and able to produce references to that effect. Wages $65.00 per month and room. Apply by letter only, enclosing copies of recent references, to

C. W. KNIGHT
Westbrook Gardens, Oakdale, L. I., NEW YORK

WANTED—Head Gardener; married man; Scotch or German preferred, without family. Must have thorough experience in greenhouse and outside gardens. Permanent situation. Gardener's cottage provided. Address "F. H. B.," P. O. Box 1723, Boston.

WANTED—A good pot plant grower to work under foreman. Reply, stating age, experience and wages expected, to THOMAS ROLAND, Nahant, Mass.

SITUATIONS WANTED

DO YOU NEED FARM HELP?

We have many able-bodied young men, both with and without farming experience, who wish to work on farms. If you need a good, intelligent, sober man, write for an order blank. Ours is a philanthropic organization and we make no charge to employer or employee. Our object is to encourage farming among Jews.

THE JEWISH AGRICULTURAL SOCIETY,
174 Second Avenue, New York City.

FOR SALE

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

St. Louis — The Geo. M. Garland Company of Des Plaines, Ill., greenhouse builders, has opened an office here in room 1208, Fullerton building, which is in charge of C. C. Shafer.

OBITUARY.

Eric Bonevier.

Eric Bonevier, proprietor of the Butcher Greenhouses, Providence, R. I., died on May 9th, after a long illness. He leaves a mother in Sweden.

Walter Wellhouse.

Walter Wellhouse, one of the best known fruit men of Topeka, Kan., died May 2, aged 65 years. He was secretary of the State Horticultural Society since 1906, besides being affiliated with many other societies. He is survived by a widow and two sons.

Julius White.

Julius White, who for twenty-two years conducted a florist business in Skaneateles, N. Y., passed away on Sunday, May 10, at his home in that village after a long illness. Mr. White was 64 years old. He was born in Somersetshire, England, and came to America in 1866. He is survived by his widow, one son, and has several brothers and sisters in this country, England and Australia.

UNIVERSITY OF ILLINOIS NOTES.

At the meeting of the Floricultural Club held Wednesday evening, May 4, Mr. James Hutchinson, a member of the staff of instruction, gave a very interesting and instructive talk on Orchid Culture. He supplemented his talk with numerous photographs. Mr. Hutchinson is an experienced grower. The entire membership of the club "turned out" to hear him speak.

The class in floral decorations in charge of Prof. H. B. Dorner returned Sunday evening from a two days' inspection trip to the establishment of F. Dorner & Sons Co. at Lafayette, Ind. The object of the trip was to study flower shop and work-room arrangement with reference to the retail trade.

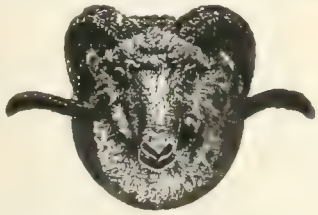
The members of the class availed themselves of the opportunity, and visited the Dorner greenhouses, Purdue University and the battleground of Tippecanoe. While at Lafayette the visitors were royally entertained by Prof. Dorner.

CINCINNATI NOTES.

Milton Alexander called on his trade in this city last week.

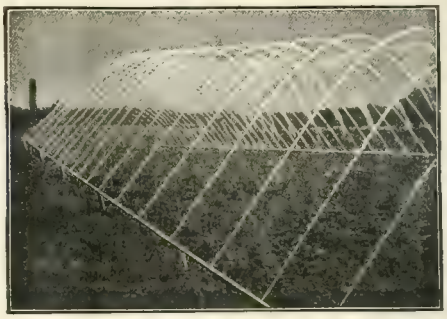
Hardesty & Co. and Julius Baer utilized fine large iris to good advantage in their window displays this week.

C. P. Brunner and A. C. Leedle of Springfield, Ohio, were in the city on Monday. The purpose of their visit was to see the Reds wallop the Giants.



SHEEP MANURE
A Natural Product
100 lbs. $2.00
WM. ELLIOTT & SONS
42 Vesey St., New York

SAVE YOUR LAWNS
AND GARDENS



Sprinkling, Irrigation and Water Supply Outfits

Country Estates a Specialty

Write us of your needs and conditions and we will tell you what we can do for you.

Charles J. Jager Co.
Consulting and Contracting Engineers
13-15 Custom House St., BOSTON, MASS.
and
33 Canal St., PROVIDENCE, R. I.

LEMON OIL CO'S STANDARD
SOLUBLE IN WATER
NO ODOR INSECTICIDE NO POISON

POISON KIL-WORM POISON
Destroys Worms, Ants, &c., infesting Golf, Cricket Grounds, Parks and Lawns. Sure death to snails. Does not **injure** grass; causes the insects to come to the surface to die. (Must not come in contact with fine plants). One gallon Kil-Worm makes 50 gallons liquid when mixed with water. 1 quart, $1.00; 1 gallon, $3.00; ½ gallon, $1.75; 5 gallons, $13.50.

POISON KIL-WEED POISON
A scientific Weed Destroyer free from odor. An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, &c. Saves expense of several men; can be applied with an ordinary sprinkling can. One gallon Kil-Weed makes 30 to 35 gallons liquid when mixed with water. 1 quart, $0.35; ½ gallon, $0.60; 1 gallon, $1.00; 5 gallons, $4.00; 10 gallons, $7.50; 1 barrel, per gallon, $0.65.

LEMON OIL COMPANY, Dept. J
420 W. Lexington St., Baltimore, Md.
Directions on every package; write for circular

Cocoanut Fibre Soil
This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.
Order now in 100 lb. bags.
20th CENTURY PLANT FOOD CO.
27 & 29 OCEAN ST., BEVERLY, MASS.

North Olmstead, O.—Claude C. Tyler has leased the Essex greenhouses, and will grow carnations exclusively.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

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NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

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Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

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IMP. SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses, Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL. $6.50

Dilute with 24 to 40 parts water.

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EASTERN CHEMICAL CO, BOSTON

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

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The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

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FUNGINE will destroy mildew, rust and bench fungi.

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NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

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Manufacturers of Agricultural Chemicals

MADISON, N. J.

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British Distributors: British and American Fertilizing Co., Liverpool, Eng.

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PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

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HEWS STANDARD POTS
POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS
WRITE FOR CATALOGUE AND DISCOUNTS
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Fergus Falls, Minn. — State Insane Asylum, one house.

Monson, Mass.—W. H. Pease, North Main st., one house.

Syracuse, N. Y.—C. R. Brown, range of vegetable houses.

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Murray Hill, N. J.—L. B. Coddington, range of Hitchings houses.

Syracuse, N. Y.—Baker Floral Co., Lord & Burnham house 40 x 200.

Ashtabula, O.—Dunbar-Hopkins Co., Woodman avenue, range of houses.

Athol, Mass. — Geo. W. Sutherland, one house 50 x 100; one house 12 x 55.

Rutherford, N. J. — Julius Roehrs Company, three Lutton houses each 35 x 100.

Cairo, Mich.—A. J. Packer, two houses each 17x60; one house 23x60; one house 24x60.

NEWS NOTES.

Providence, R. I.—Joseph Kopelman has purchased Andrew Olsen's greenhouses at Riverside.

St. Catherines, Ont. — The Lord & Burnham Company have started the erection of their Canadian factory on a 17 acre plot next to the Yale lock plant.

Boston—Lord & Burnham Co., have moved their Boston headquarters to 511 and 512 Tremont building, which gives them more and better office room and facilities.

Princeton, N. J. — The greenhouses of the W. E. Trimble Greenhouse Company were badly damaged by a hailstorm on May 5th, causing damage estimated between $5,000 and $8,000.

Sheffield, Ill.—The greenhouses of W. G. Thomas & Son were struck by a heavy cyclone and hailstorm on May 3d and considerably damaged. The loss is fully covered by insurance.

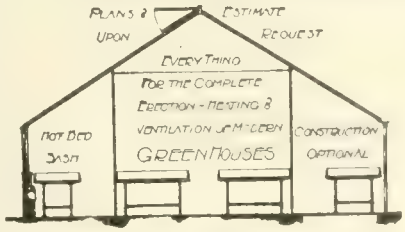
Hoopstown, Ill.—Andrew Peterson has sold his Second street greenhouse to Joe Schuler. His range at the corner of Main street and Second avenue has been purchased by Mr. Raasch of Kankakee.

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1,096,180. Flower Holder. Ivar Muerling, Brooklyn, N. Y.

1,095,238. Collapsible Flower Stand. Willis J. Shadduck, Lyons, Iowa.

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Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
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Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
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Builds Good Greenhouses
TRY HIM.
THE FOLEY GREENHOUSE MFG. CO.
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PEIRCE PAPER FLOWER POT
Replaces clay pot for transferring and delivery of plants without damage.
Under ordinary growing conditions will last two months or more in a greenhouse, making them available for growing many small plants.
Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.
Only paper pot ever so recognized.
Ask your seedsman or supply house. If they do not keep them, send direct.


Made in Standard sizes, 2 inch to 6 inch inclusive.
Samples furnished free.
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1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
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OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS
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Heavy Tin Lawn or Cemetery Vase.

No. 1, in both green and white enamel, 6¾ inches deep and 4 inches in diameter, with a 4 inch spike. Price $15.00 per 100.

No. 2 in green and white. These are 6¼ inches deep, 3¼ inches diameter and a 4 inch spike. Price $12.00 per 100. Made with heavy sheet tin.

Stone Cemetery Vases.

In blue only. These are 6½ inches deep, 4½ inches in diameter, with a 4 inch spike. Price $1.50 per dozen.

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Solves the "Irrigation Problem" and affords rain when you want it, and like you want it, at the minimum cost of installation and operation. Sample postpaid $3.00. Money back if you want it. Descriptive literature on request.

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SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

Greenhouse Shading

AFTER many years of experience in greenhouse work with Lord & Burnham Company, in the glazing and painting department, I am convinced that what is needed most is a good shading, and I am pleased to tell you that I have the real thing which you are all looking for.

My shading is beneficial to the painted wood, as it contains nothing but pure linseed oil; it is also beneficial to the glass. You will be surprised by the brilliancy left in the glass when the shading is removed. It is very easily applied by spray or a soft brush; I prefer the brush.

Made up in gallon cans. Colors; light green, blue and pure white. If you will give it a fair trial I am sure you will agree that it has proven its worth.

E. A. LIPPMAN, MORRISTOWN, N. J.

Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
Frank Van Assche, Fulton Ave., Rose Ave. and Dwight Street
JERSEY CITY, N. J.

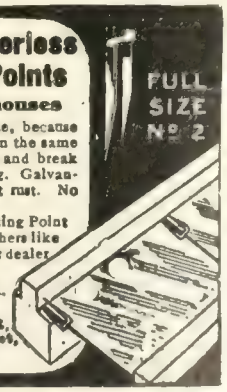
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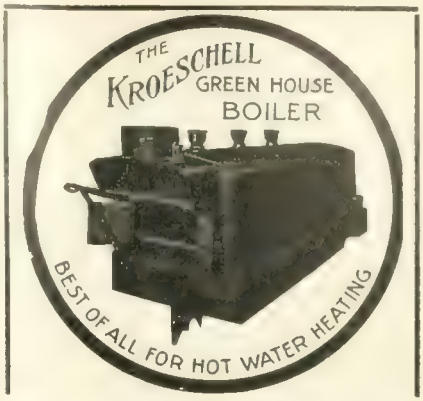
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Dreer's Peerless Glazing Points
For Greenhouses
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.
The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.
1000, 75c. postpaid. Samples free.
HENRY A. DREER, 714 Chestnut Street, Philadelphia.



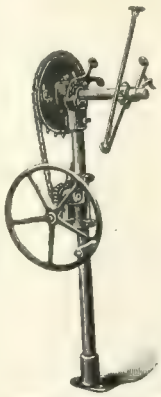
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32 feet or longer
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GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED
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Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



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Will not twist the shaft[illegible] times the power [illegible]
Sold only with [illegible]
Write for [illegible]
QUAKER CITY [illegible] CO.
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FAR above the noise of noisy, bustling New York Mr. [illegible] has his range of houses on top of Bloomingdale Bros. store at Fifty-ninth Street.

Eighteen years ago we built the first houses and have continued adding to them. Two, we just completed, 26 feet wide and [illegible] feet long.

We consider this a pretty good recommendation for our construction—eighteen years of hard usage. There is probably not another greenhouse in the world that has had the number of people visit it. This means wear and tear on the structure.

Today, outside of minor repairs the original houses are as good as the day they were built.

Here the flowers are grown that are sold in the flower shop on the ground floor. This flower garden on the roof gives people a chance to see how flowers and plants are grown. It also gives a prospective purchaser of a greenhouse a chance to see a greenhouse built in its entirety. It shows you the superstructure, plant benches, and heating apparatus. It also shows you the plants growing, as well as how the plants are taken care of.

Besides running this shop and range of houses, Mr. Trepel also runs the flower store at Abraham & Strauss in Brooklyn; Gimbel Bros., 33rd St., and 6th Ave., New York, and has recently opened a new one at 89th St. and Broadway.

We tell you all this just to show you the variety of greenhouse building problems we are continually solving successfully.

Incidentally, we hope that when you are ready to build, you will think of us as the builders. When you are ready to talk it over,—say when and where and we'll be there.

Lord & Burnham Co.

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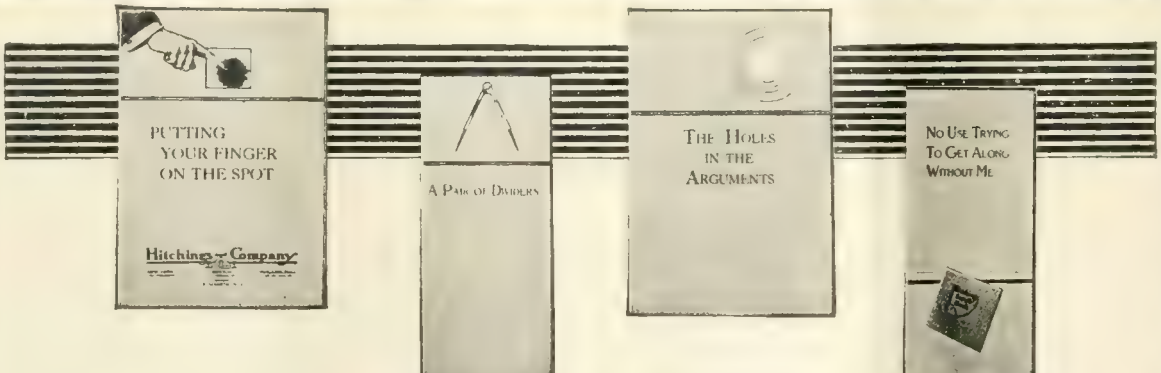
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ROCHESTER Granite Bldg. | CLEVELAND Swetland Bldg. | TORONTO 12 Queen Street, East

FACTORIES: Irvington, N. Y. Des Plaines, Ill.



Glimpse in one of the houses a couple of days before Easter.



FOUR SHARP GIMLETS, HOW TO GET THEM

A gimlet, as everybody knows, is a sharp pointed tool to bore holes in wood.

Facts, are gimlets that fill untruths full of holes. We have made four particularly sharp gimlets for boring right into the untruths of greenhouse construction and estimates. They are in the form of four pithily, pointed pieces of printed matter (one is a booklet). Two of them have already been mailed to several thousand whose names are on our mailing list.

Here are the names of these four gimlets:

1. **No Use Trying To Get Along Without Me.**
2. **Putting Your Finger On The Spot.**
3. **A Pair of Dividers.**
4. **The Holes In The Arguments.**

How about you—did you get the first two? If you didn't, then sign the coupon below: tear it off and mail to us and we will see that you get all four of the gimlets. Every one will have a sharp point so you can put it to work at once.



Cut this off here, mail it to us and along will come the four gimlets.

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Vol. XIX
No. 22
MAY 30,
1914

HORTICULTURE

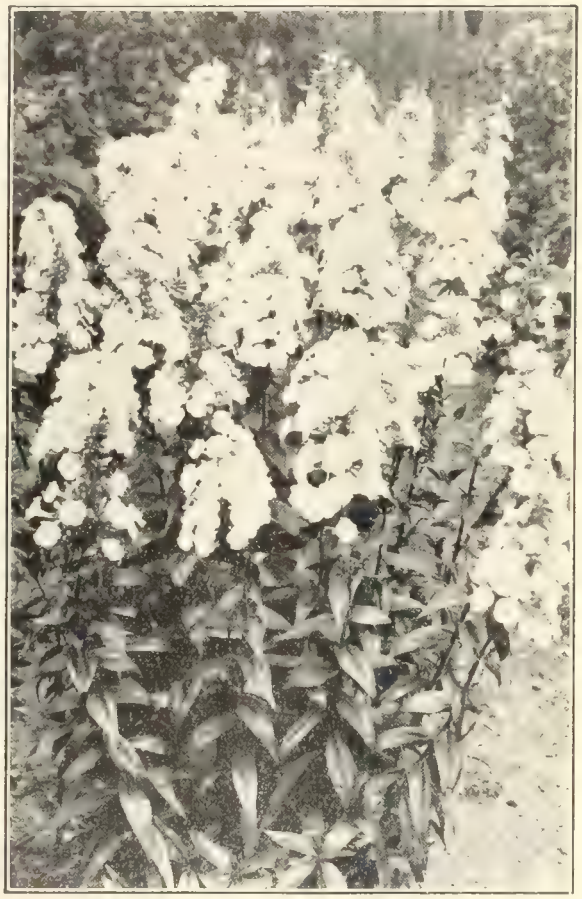


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One year old, field-grown plants now established in three inch pots. General Collection of Standard Varieties.



HARDY PHLOX

Albion (Medium). One of our own introductions; producing very large panicles of pure white flowers, with faint aniline-red eye.
Aglae Adanson (Medium). Large snow-white with violet-rose eye.
Antonin Mercie (Medium). Light ground color, upper half of each petal deeply suffused bluish-lilac, large white halo.
Bacchante (Tall). Tyrian rose, with crimson-carmine eye.
B. Comte (Medium). Brilliant French purple, with crimson-carmine shadings. 85 cts. per doz.; $6.00 per 100.
Bridesmaid (Tall). White, with large crimson-carmine centre.
Caran d'Ache (Medium). Geranium-red, with old-rose shadings and white eye; very effective.
Champs Elysee (Dwarf). A very bright rosy magenta.
Colibri (Tall). White, with crimson-carmine centre, very late.
Coquelicot (Dwarf). A fine pure scarlet, with crimson-red eye. 85 cts. per doz.; $6.00 per 100.
Danton (Medium). Scarlet, pure red eye.
De Miribel (Medium). White, suffused with bright rosy scarlet, red eye.
Diadem (Drawf). A fine dwarf, pure white.
Eugene Danzanvillier (Tall). Lilac, shading white toward the edges; large white centre.
Frau Dora Umgeller (Medium). Solferino red, shading to carmine-crimson at centre.
General Giovaninelli (Dwarf). Bright tyrian rose, with light shadings at the base of each petal, a pure red eye; very effective.
Goliath (Very tall). Rich carmine, shading to a deep centre.
Helena Vacerasco (Dwarf). Large pure white.
Henry Marcel (Medium). Pure red, with bright salmon shadings.
Henry Murger (Tall). White, crimson-carmine centre.
Henry Royer (Medium). Tyrian rose, with lighter shadings.
H. O. Wijers (Tall). White, with bright crimson-carmine eye.
Jeanne d'Arc (Tall). A good standard late white.
Jules Cambon (Medium). Bright rosy magenta, with large white centre and light halo.
Kucken (Medium). Bright carmine-rose shaded salmon.
La Vague (Medium). Pure mauve, with aniline-red eye.
Le Mahdi (Medium). Deep reddish-violet, with darker eye.
Le Prophete (Dwarf). Bright violet-rose, large light halo and bright rose eye; fine.
Louise Abbema (Dwarf). Very large dwarf, pure white, fine form.
Mme. Paul Dutrie (Tall). A delicate lilac-rose, reminding one of some of the beautiful soft pink Orchids.
Mozart (Tall). Ground color white, suffused salmon; aniline-red eye.
Mrs. Jenkins (Tall). The best tall early white for massing.
Obergartner Wittig (Medium). Bright magenta, with crimson-carmine eye; large flower and truss; one of the best.
Pacha (Dwarf). Deep rose pink, suffused with solferino-red and carmine-purple eye.
Pierre Bayle. Crimson-carmine, overlaid with orange scarlet.
Professor Virchow (Medium). Bright carmine, overlaid with orange scarlet.
Prosper Henri (Tall). Pure white, large decided rosy magenta eye.
Selma (Tall). Large flower, pale rose mauve, with claret-red eye.
Sunshine (Dwarf). Large, aniline-red with crimson-red eye and light halo.
Von Goethe (Medium). Tyrian rose suffused carmine-lake and bright carmine eye.
Von Lassburg (Medium). The purest white in cultivation, individual flowers larger than any other white.

Price. Any of the above varieties, except where noted otherwise, 75 cts. per dozen; $5.00 per 100; $40.00 per 1000.

New Varieties of Phlox

Asia. One of the most valuable recent introductions, a delicate shade of mauve, with a crimson-carmine eye.
Braga. Mauve-rose, more or less suffused with salmon; large white eye; a distinct and pleasing color combination.
Europa. A white variety with very decided crimson-carmine eye; the individual flowers as well as the trusses are very large, entirely distinct.
Manzelbrunner. A very large bright soft pink, with a large white eye.
Rynstrom. An improved form of the popular variety Pantheon; fine for massing, of a Paul Neyron Rose color.
Rosenberg. Bright reddish-violet, with blood-red eye, large truss and individual flowers as large as a silver dollar.
Rheinlander. A beautiful salmon-pink with flowers and trusses of immense size, the color of the flower is intensified by a very decided eye of a deep claret-red. 30 cts. each; $3.00 per doz.; $20.00 per 100.
Wanadis (Medium). Entirely distinct, a mottling of white and light violets, reminding one of Phlox Divaricata Canadensis. The color is intensified by a bright reddish-purple eye. 30 cts. each; $3.00 per dozen.
W. C. Egan. One of the best and largest flowering varieties in our collection, panicles of immense size, of a delicate pleasing soft shade of lilac which is illuminated by a large bright solferino-red eye. 30 cts. each; $3.00 per doz.; $20.00 per 100.
Widar. A splendid improvement on Edmond Rostand; in color a light reddish-violet, with very large white centre, which intensifies the color.
Tragedie. Deep brilliant carmine with blood-red eye. $1.50 per doz.; $10.00 per 100.

Price. Any of the above varieties, except where noted, $1.00 per doz.; $6.00 per 100; $50.00 per 1000.

The prices quoted above are intended for the trade only.

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We have a half million in two-inch pots at **$2.00 per 100, $18.50 per 1000.**

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Bedding Plants and Roses

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

LIBRARY NEW YORK BOTANICAL GARDEN.

Antirrhinums for Winter Flowering

These half-hardy perennials have been the aristocrats of the flower garden and now they are working their way to become the same under glass. If plants are wanted to bloom well through the winter, lose no time in getting cuttings into the sand. Make a careful selection of any strain that showed up well during the past winter. See that they have protection from the sun, and use every precaution to prevent wilting. Water them freely until rooted and when they have rooted get them potted as soon as possible and keep shaded for a few days until they become established, when they should be given a bench in a cool house, with fullest light and ventilation. These plants can be plunged in a frame where you can get at them with the hose. When they have filled their pots with roots shift them into 4 or 5-inch pots which will hold them until they are planted out in the benches.

Care of Adiantums

Plants which are grown in large sized pots and which had a little rest during the winter will now have a dense crop of young fronds and any not repotted will be benefited by weak doses of manure water once a week. Sometimes there is an opportunity to plant out narrow benches of adiantum, and in six inches of good loam they soon develop into strong plants. To keep the fronds of a uniform dark color, additional shading will be now required on the glass. Where snails are troublesome, baits of lettuce or cabbage leaves or sliced potatoes will attract many. A dusting of fine salt or lime among the pots will kill many. Do not keep them too warm as it tends to make the fronds very soft. A temperature of about 60 degrees, with 10 to 15 degrees higher with sun is enough for Adiantum Croweanum and A. cuneatum. Adiantum Farleyense will want not less than 65 degrees —70 degrees would be better. Give ventilation on all favorable days, but not to such a degree as to lower the temperature.

Chrysanthemums

When growing show plants it is a better plan to start enough of them so that if a few kinds turn out faulty you can afford to discard them. For the growing of exhibition blooms great care should be taken from the time the cuttings are struck until they have their last shift. The plants should never be allowed to get pot bound. As soon as the pots are well filled with roots repot into 3-inch and on up into 8 or 9-inch pots. A good turfy loam with one-third well-rotted cow manure and a sprinkling of bone is a good compost to use. Mix it thoroughly and let it stand for a few days until needed. Be careful after potting not to overwater, and as they get well-rooted never allow them to want water. Syringe every sunny morning and again in the afternoon on every warm day. Plants intended for exhibition should now be growing rapidly, and must have every attention in the way of watering, ventilation, pinching and tying up. Look out carefully for aphis and fumigate regularly.

Growing Asparagus plumosus

In any retail establishment of some size a bed of this most useful green in one of the houses will always be highly useful. There are many greenhouses not well adapted for growing cut flowers which answer admirably for asparagus. Thrifty plants, out of 4-inch pots, are the right sort of stock to use in the making of a new asparagus bed. In the replanting of old beds the soil, to a depth of at least six inches, should be renewed, and the lower layer loosened with spade or fork before the new compost is placed on top. A good mixture for this culture is prepared by thoroughly intermixing in equal parts, a rather heavy loam and old cow manure, and enough of sand to keep the shovel bright. A layer of eight or nine inches of this compost is none too much for asparagus. The plants should be set from ten to twelve inches apart and the distance between the rows should be from sixteen to eighteen inches.

Tuberous-rooted Begonias

Tubers are inexpensive and it is not too late even now to start a batch. They will start to bloom within a couple of months. Tuberous begonias want a cool, airy greenhouse and the shade must not be too heavy or it will make the plants drawn and soft. They are liable to be attacked by thrips in the early stages and either a weekly fumigation, or spraying must be given to keep them in check. When in active growth and well pot-bound, liquid manure can be given twice a week with benefit. Tuberous-rooted begonias are perhaps the most useful of all summer-flowering plants of a moderate size and as they are persistent bloomers no florist can go far wrong in growing a good lot of them. As bedding plants their sphere is somewhat limited unless partial shade can be given, although they succeed well in the open at seaside resorts where the nights are cooler and the atmosphere softer than inland.

Outside Work

The florist who has different crops planted outside will have to give them plenty of attention from this out. You will have to go over them often in order to keep down the weeds which grow so fast now. Where the ground is kept well cultivated every week you will not have much trouble with weeds. Give all rank growing crops some good fertilizer sowed between the rows and cultivated in. This will help greatly in their growth.

Stocks

Mr. Farrell:

Dear Sir Can you please inform me why Beauty of Nice and Princess Alice stocks don't do as well now as in the winter? The past three years I've been having good

plants in 8 inch pots at Christmas, yet the same variety in February only throw the one stem and flowers while in 4 inch pots. They have the same treatment in each case and are potted before they become pot-bound.

Yours sincerely,

H. L.

Conn.

Beauty of Nice and Princess Alice do not do as well from April up to now, as they do from the middle of January up to the middle of March. To have this stock in bloom at Christmas the seed should be sown the end of April and grown on by shifting until in whatever size desired using rich compost. There is no better place to care for these plants during the summer than a cold frame. Here they can remain until late in the fall. They can be kept pinched and will form good bushy plants which should throw quite a few flowers. When housing them give a cool house, place where the temperature at night is from 45 to 48 degrees. They like plenty of ventilation and will not stand any forcing. Read my article in the issue of May 16th.

Mr. Farrell's next notes will be on the following: Outdoor Sweet Peas; Palms; Bay Trees; Poinsettias; Orchids; Spraying and Syringing.

Selenipediums

Among the subtribe Cypripediæ, the section Selenipedium forms an interesting and useful group together with its many hybrids. Among the species we find the curious S. caudatum with its large flowers and very long petals, which latter sometimes attain a length of 30 inches, S. longifolium, S. Schlimmii, S. caricinium and numerous others, all well worth a place in any collection of orchids.

Many beautiful hybrids between the various species have been raised artificially and one can have flowers nearly all the year around by having a collection of the different species or hybrids. The flowers are produced on long, stout stems for a long time in succession and while the individual flowers do not last so long as those of the Cypripedium insigne section, a strong plant will remain in bloom three or four months at the time. As soon as or before one flower is ready to drop, there will be another to take its place.

In the accompanying picture will be seen in the upper left hand corner a good specimen of S. × calurum Rogersii, with its lovely rose colored flowers and broad dark green foliage; a noble plant even when not in bloom. In the center of the background is S. conchiferum, and towering above it is a strong branched inflorescence of S. Urgandeae with five flowers. On the right side of the picture is S. cardinale; just below and in front of this is S. candidulum and S. Sedeni; these last three varieties are in reality forms of one, being crosses of the same two species. Two flowers of S. Roezlii can be noticed to the left and below S. calurum Rogersii. The cypripediums in the group are, reading from left to right, C. Siebertianum, C. callosum, C. Harrisonianum superbum, C. Polletianum and C. tonsum.

Selenipediums are best grown in a warm, light greenhouse where the temperature does not go below 58 degrees or 60 degrees at night. The warmest end of the cattleya house makes an ideal place if room can be found for them. They enjoy more sun and light than the cypripediums from India, such as the C. insigne and C. barbatum section. Osmunda fibre with a few lumps of fibry loam intermixed makes a good compost for them and when in active growth they will be greatly benefitted by a weekly dose of weak liquid manure water.



SELENIPEDIUMS WITH CYPRIPEDIUMS IN FOREGROUND.

Repotting is best done when the new growths are starting to root. After repotting keep on the dry side until root action starts in again. Well established plants require a good deal of moisture at the root and can be sprayed overhead on bright warm days. Air should be admitted on all favorable occasions, as a stagnant atmosphere is very apt to cause the young growth, and sometimes with it the young flower spike to rot off.

M. J. Cope

Naugatuck, Conn.

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ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Watering

Make sure that the plants have all the water that they need this warm dry weather, for if they are allowed to suffer from lack of water they will not produce the flowers, especially the Beauties which will likely become stunts and finally go blind. See that there is enough mulch on to keep the sun from heating up the soil too much, for this would hurt a large number of the roots, and would kill all the small and tender feeders that are continually working out in search of food. Water the edges of the benches twice if necessary. Be careful in using liquid manure, for it must not be applied if the soil is at all dry. Better water with clear water first.

Cleaning

There is no reason why the plants should not be kept clean, for the houses will still have some time to live. See that they do not become infested with red spider as that would be bad for the next season, as a large number of the rascals will remain on the benches, and will manage to get at the young plants as soon as these are set on the benches. The same is true of greenfly. Keep this out of the houses at all costs.

Parcels Post

Many places will receive quite a few orders to be shipped by parcels post and this line of trade can be worked up so that it will pay very nicely. The main part of it is to see that the roses shipped in this fashion arrive at their destination in good shape. To do this they must be well hardened before they start, and should have the stems mossed, and then they should be tied to the bottom of the box, so as to make it impossible for them to slide around in the box while they are handled and thus become bruised and broken. We always use a wrap around the outside of the box, as then the box itself will remain clean, and will be presentable when the outside wrap is removed. Mark the box so that anyone can tell it contains flowers and it will be handled a little more carefully at least.

Shipping

It is a very poor policy to put all the roses into the box. All the bad, or too far open ones should always be discarded, for they only pull the price down on the good ones. If there are too many to throw away, put them in a lot by themselves and then they will bring something, and you will receive a better price for the good grades. If this has not been done all along it will take a while for the buyers to get wise, but once this is done, and the stuff is always packed good, the stock will usually be sold before it reaches the city. Try it and see.

A Query

Mr. Ruzicka:

Dear Sir—Will you kindly advise me when to set out rose bushes in greenhouse for late fall and winter flowering, and what kind of drainage to use in benches that are about four inches deep with tile bottom, also how long to leave shading on house after planting to get good results? I am,

Yours respectfully,
M. C.

New York.

As you do not specify any varieties, we take it for granted that you intend planting some of the regular greenhouse varieties. You also mention bushes. We could advise you better if you would be a little more explicit in your letter. Roses for winter blooming can be planted any time now, and if young plants are used they will have plenty of time to develop before roses are cut from them. If your benches are raised you will require no drainage at all, save spaces between the tiles, or holes in the same. If, however, your benches are solid we would advise at least four inches of crushed stone under the tiles. It would be of little use to put broken stone into the bottom of the benches as the stone would soon fill up with soil, and then the drainage would be poor. If your soil is heavy you can allow more open space between the tiles, and if your soil is light, put them closer together. Use a little straw or hay, or any material like that, which is not too coarse, in the bottom of the benches to keep the soil from sifting through. Do not use too much soil in the benches, as you can always add a little more whenever the plants need it. As your benches are four inches deep we would fill them not quite full, say up to within a half an inch. This will give the plants plenty of soil to root in, and make them easier to control. As for shading, we never use shading for roses after planting. We might shade the houses a little to make them more comfortable to work in, but that is all. This is generally only a little mud and water and will wash off with the first rain that comes along. If the plants used are potted stuff they should never feel that they have been planted except that they will start and grow much better at once. They should never wilt if they are planted right, hence there is no use for shading, as it only tends to make the plants soft and more subject to disease.

As an Advertising Medium Horticulture has NO superior. Because they ALL read it. And they read it ALL.

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Publicity

The building of greenhouses and extension of facilities for the production of flowers for commercial purposes shows no diminution but rather an increase from season to season, as a perusal of our column devoted to the weekly record of greenhouse building will show. This is pleasing evidence of a widespread confidence in the stability and future growth of commercial floriculture which seems well justified. The effect of the augmented quantity and improved quality of the product is, however, increasingly apparent each year in the large centers where flowers are wholesaled and the progressive thinking men whose business interests and prosperity are involved are coming to see the necessity for concerted action to develop a broader and more craving demand from the public for the goods. And this is what is behind the recent agitation of "Publicity."

Restricted ideals

Publicity is a term of very elastic meaning. In its application to the flower trade, in the few years since the word came into prominence as a somewhat vague and nebulous "open sesame" to business improvement, such expedients as window placarding and joint newspaper advertising, general reading notices in the public press, etc., seem to mark the limit of the average conception of what would constitute a practical trade publicity policy. But does this really get to the root of the proposition? While recognizing all these resources as useful factors in increasing and developing business HORTICULTURE has very decided convictions as to the ultimate value of expenditure in such directions unless well supported by a general adherence to certain fundamental principles, and thus in our sincere desire to help along the good work, as we see the light, we have, in these columns from time to time expressed sentiments and views seemingly at variance with the judgment of local publicity committees and others whose well-meant efforts have appeared to fall short of what might have been accomplished with a more mature consideration of the problem.

Two kinds of publicity

In further explanation of the foregoing we submit that persistent effort to popularize the using of flowers for a myriad purposes every day in the year is far better than sporadic advertising for special occasions when the demand will to a great extent develop itself. Again, all the beneficial effect of placarding and advertising at such times will be more than neutralized if, as is usually the case, its sequence is a dissatisfied public imbued with a well-defined belief that they have been subjected to a hold-up by the florist. We feel that "publicity" under such conditions becomes just plain "notoriety" and is purchased at a frightful cost to the flower business. Ideal publicity—the kind under which the florist trade will grow and prosper—is whatever will help to properly standardize flower values, increase the use of plants and flowers in the thousand and one daily affairs of life, help to elevate the business to a position of honor as a commercial enterprise of stability and good repute and place those who are engaged in it on the highest pinnacle in the public estimation. All this cannot be brought about in a day or a year—perhaps it is a hopelessly Utopian proposition but the only way to strike high is to aim high. We would here repeat what we have urged on several occasions before, that constructive energy, foresight and executive ability of a high order will be indispensable, especially for the initiatory period, in the flower publicity committees appointed by the various florists' organizations if any permanent benefit is to result from their work.

SOME MAY FLOWERING SHRUBS.

From Arnold Arboretum Bulletin No. 54.

The Korean Viburnum Carlesii is uninjured by the winter. This is one of the most beautiful of the exotic Viburnums and is particularly interesting from the fact that the flower-buds are bright orange-red while the inner surface of the corolla is white, and as the flowers open the color of the outer surface gradually fades to pink and then to white. As the buds do not always expand at the same time there are in the flower-cluster pink buds among the white flowers; the flowers are very fragrant. This plant, although it is still comparatively little known, well deserves a place in every collection of shrubs.

As usual, the earliest Barberry to flower in the Arboretum is Berberis dictyophylla which, although it comes from the southern part of China, is perfectly hardy here. The flowers are solitary or occasionally in pairs in the axils of the leaves, rather less than half an inch in diameter and pale primrose yellow in color. The peculiar beauty of the plant, however, is in the leaves, which, although not large, are silvery white on the lower surface and in the autumn turn brilliant scarlet on the upper surface while the lower surface retains its spring and summer color.

Prinsepia sinensis is uninjured by the winter and the plant has flowered more profusely than ever before. This north China shrub is one of the first plants in the Arboretum to unfold its leaves in the spring, and when these are nearly fully grown the clear yellow axillary flowers appear. This beautiful and interesting shrub does not seed at all freely in the Arboretum and is still rare in American collections.

Fothergilla, which is a genus of the Witch Hazel Family, confined to the southeastern United States, has furnished gardens with some beautiful shrubs. All the species bear small white flowers in compact clusters, at the ends of the branches, and handsome leaves resembling those of the Witch Hazels; they are now in bloom. Fothergilla major and F. montana are large, vigorous and very hardy shrubs, while Fothergilla Gardeni, which is a small plant and a native of the coast region, is less hardy than the mountain species.

The form of Rhododendron praecox known in gardens as "Little Gem" is usually the first of the evergreen Rhododendrons to flower in the Arboretum. The pale rose-pink flowers are too often injured by late frosts, and this year the flower-buds have been killed by cold, so that this spring the earliest Rhododendron in flower is a dwarf plant received several years ago from Germany under the name of R. Jacksonii, a name which does not appear in catalogues. It is evidently one of the forms or hybrids of R. caucasicum, although it flowers two or three weeks before any of the other forms of this species in the Arboretum. It is a low compact plant with clusters of large pale pink flowers and has not been at all injured by the winter. They are well worth the attention of lovers of dwarf early flowering Rhododendrons.

A VISIT TO HAWTHORN HALL.

Friday, May 22, was a delightful holiday for the members of the Horticultural Club of Boston, when they visited South Lancaster as the guests of Mr. and Mrs. Bayard Thayer at their beautiful estate, Hawthorn Hall. This estate which we described in part last year on the occasion of the visit of the Gandeners' and Florists' Club of Boston, comprises about 1000 acres the villa occupying an elevation commanding views of wooded hills and valleys and typical New England villages for many miles. Crataeguses are a feature of the decorative planting about the house and from these comes the name Hawthorn Hall. Of equal importance and interest are the lilacs of which a vast number of old and new varieties have been planted and an idea of their luxuriance may be drawn from our cover illustration in this issue.

There are extensive nurseries in which tens of thousands of pines, kalmias, callunas, etc., are raised for planting on the estate. 1000 white pines have been set out this season; A field of 12,000 2-year-old Rhododendron Vaseyi, all to be planted in the woods was especially admired by the visitors.

At this season the tulips and late narcissi are the dominant features of the flower garden. German irises in many varieties and lilies will quickly follow. We described these tulip beds quite at length last year. They are simply gorgeous and the plantings this year are an improvement over last year's arrangement. Exochorda Wilsoni, which came in for so much admiration last year is again a sight worth a long trip to see. William Anderson, the superintendent is recognized as one of the most competent and skillful gardeners in outdoor and indoor work and he is as popular as he is skillful. He escorted the visitors all over the grounds and none will ever forget the delightful stroll, through meadows and glades, sparkling with myriads of Poet's narcissi growing at random through the grass.

Luncheon was served on the veranda and everything possible to make their guests happy was done by Mr. and Mrs. Thayer.

The place was thrown open to the public from 2 to 6 o'clock last Saturday afternoon and there were no less than 3000 visitors from all over Worcester County. 600 autos were there by actual count.

THE MOSSES.

"Mosses—meek creatures! the first mercy of the earth, veiling with hushed softness its dintless rocks; creatures full of pity, covering with strange and tender honor the scarred disgrace of ruin, laying quiet finger on the trembling stones to teach them rest. No words that I know of will say what these mosses are. None are delicate enough, none perfect enough, none rich enough. How is one to tell of the rounded bosses of furred and beaming green—the starred divisions of rubied bloom, fine filmed, as if the rock spirits could spin porphyry as we do glass—the traceries of intricate silver, and fringes of amber, lustrous, aborescent, burnished through every fibre into fitful brightness and glossy traverses of silken change, yet all subdued and pensive and framed for simplest, sweetest offices of grace? They will not be gathered, like the flowers, for chaplet, or love token; but of these the wild bird will make its nest, and the wearied child his pillow."—*Ruskin.*

SPOTS ON CHRYSANTHEMUM FOLIAGE.

Dear Sir:

Will you please tell me in the next number of "Horticulture" or by mail all about the dark brown spots on the leaves of young chrysanthemums and how it can be prevented from spreading? I am a reader of HORTICULTURE.

Very truly yours,

California. W. W.

In regard to the brown spots on the chrysanthemum, the conditions in California are quite different from those in the east, so that the diseases also differ greatly. The only black spot we have here on the chrysanthemum come on in the fall on greenhouse plants when they are grown too closely together. This spot is known as Cylindrosporium. It seldom affects potted plants or where the leaves receive sufficient light and air. The spots may occur singly or cover a large part of the leaf, and they are always confined to the older, lower leaves.

I should advise writing to the pathological department of the University of California, Berkeley, California, for advice. Yours very truly,

(Dr.) G. E. Stone,

Mass. Agri. College,
Amherst, Mass

A CONFESSION.

What a glorious profession is that of the true gardener!

He enjoys all the beauties of nature which his employer only glimpses between times!

He gets all the effulgence and none of the worries of paying for it!

I have been crying like John the Baptist for more pay for the gardener. I take it all back.

The gardener ought to work for nothing and pay a premium!

G. C. Watson.

CARNATIONS.

(Margaret Widdemer in May Everybody's.)

Carnations and my first love! And he was seventeen,
And I was only twelve years a stately gulf between!
I bought them on the morning the school dance was to be,
To pin among my ribbons in hopes that he might see;
And all the girls stood breathless to watch as he went through
With curly crest and grand air that swept the heart from you!
And why he paused at my side is more than I can know
The shyest of the small girls that all adored him so. . . .
I said it with my prayer times I walked with head held high—
"Carnations are your flowers!" he said as he strode by.

Carnations and my first love! The years are gone a score,
And I recall his first name, and scarce an eyelash more;
And those were all the love words that either of us said
Perhaps he may be married—perhaps he may be dead.
And yet . . . to smell carnations, their spicy, heavy sweet
Perfuming all some sick room, or passing on the street . . .
Then still the school light flickers, and still the lancers play,
And still the girls hold breathless true while he goes his way,
And still my child heart quivers in that first ecstasy—
"Carnations are your flowers!" my first love said to me!

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Convention Garden of 1914.

The Boston reports on all Convention preparations are most satisfactory and very promising, thanks to the well united efforts and labors of the Boston organizations which are hard at work to make the coming convention a great success.

The Convention Garden, as planned and prepared by our enthusiastic brothers of our horticultural and otherwise well-known and progressive Convention City, offers a splendid opportunity for the growers of all kinds of outdoor plants to display their goods and their skill. The garden is situated in one of the principal and most frequented parks of the city within easy walking distance of the Convention Hall. The general layout is very effective and the surroundings are most ideal. The grounds and their care are in the hands of most able experts, which, together with the favorable climatic conditions, assures successful culture of every plant that is sent there for exhibition or decorative purposes.

The Minneapolis Convention Garden was a success in every respect and has brought the aims and achievements of our profession and our organization nearer to the public than any other thing the S. A. F. has ever done, outside of its National Flower Shows. The people of Minneapolis feel deeply grateful towards our National Society for the beautiful garden they planted for them and for the lessons it has taught them. The education of the public in this practical manner has already made itself felt amongst local florists, which is proof that such educational exploitation is at the same time practical advertising. Our daily press insisted that the garden be continued in a similar way in the future and the display of 140,000 spring-flowering bulbs, which was at its best a few days ago, brought out the following editorial from the Minneapolis Tribune of May 21st:

OUR TULIP BEDS.

Is there in another city of the world a sight so brilliant as the garden beside our Minneapolis armory? There it stands, the property of the poorest child as well as the richest grown-up who passes by. In every such life it is playing a part today—warming the soul with the richness of splendid color, quickening in it the love of nature, lifting it above the dusty drab of the day's business. Nature is a bold artist. Were any mere man to splash colors from a paint box in such gorgeousness, to parallel scarlet with canary yellow, to mottle pink and orange in the same blossom, the eyes would close tightly with the hurt. But the very splendor of these gay colors in the tulip beds makes them magnificent. It is as though nature laughed at our futile attempts to rival her and yet gave to us opulently of her most brilliant treasures. It is not so long since such a public garden would have been found far from the center of any American city if found at all. Men and women thought themselves "practical" in those days; in reality they were only short-sighted. Today the dweller of the American city sees farther — and he makes his children richer than he was with a succession of clean and wholesome interests as the best possible offset to the day's temptations.

Our tulip beds are something more than a passing delight this spring. They are a brilliant certificate of our widening vision and our nearer approach to fullness of the spirt.

To what better aims can we devote our professional labors and skill than to the recognized motives outlined in that editorial, and of what could we justly be more proud and happy, than to feel that our endeavors and achievements are deserving of such favorable impressions, comments and recognition.

What has been started successfully last year can now be greatly enlarged upon in Boston, and a splendid beginning has been made. May I be accorded the privilege to ask every grower, florist and gardener to do his full share towards the success of our Boston Convention Garden, through active participation as an exhibitor. The Garden is all ready for planting, and all that is now required is the plants to fill it. We want you all to help us in this educational work, and we want you to share alike the happiness, the pride, the glory and other manifold benefits of this progressive undertaking. Planting time is here and passing fast, so write to James B. Shea, Chairman, Convention Garden, 33 Beacon street, Boston, Mass., for information and space. *Do it now!*

THEODORE WIRTH.
President, S. A. F. & O. H.

Convention Boston, August 18th, 19th, 20th, 1914.

Applications for space in the Trade Exhibition are coming in rapidly showing the great interest being manifested in this Convention which will be a record breaker. You can get choice in the matter of accommodation now not possible later.

Among those who have secured space are:

S. A. Anderson, Buffalo, N. Y.; H. Bayersdorfer & Co., Philadelphia, Pa.; Lemuel Ball Estate, Wissinoming, Phila., Pa.; Robert Craig Co., Philadelphia, Pa.; Arthur Cowee, Berlin, N. Y.; John Lewis Childs, Flowerfield, N. Y.; A. H. Hews & Co., North Cambridge, Mass.; Hitchings & Co., Elizabeth, N. J.; Jos. Heacock Co., Wyncote, Pa.; Jackson & Perkins Co., Newark, N. Y.; King Construction Co., No. Tonawanda, N. Y.; Kroeschell Brothers Co., Chicago, Ill.; Knight & Struck Co., New York, N. Y.; Lion & Co., New York, N. Y.; Lord & Burnham Co., New York, N. Y.; W. A. Manda, Inc., South Orange, N. J.; N. F. McCarthy & Co., Boston, Mass.; H. F. Michell & Co., Philadelphia, Pa.; F. R. Pierson Co., Tarrytown, N. Y.; J. A. Peterson, Cincinnati, O.; Pennock-Meehan Co., Philadelphia, Pa.; Reed & Keller, New York, N. Y.; Wm. Reiff, Jamaica Plains, Mass.; A. T. Stearns Lumber Co., Boston, Mass.; Schloss Brothers, New York, N. Y.; Vaughan's Seed Store, New York and Chicago; Jas. Vick's Sons, Rochester, N. Y.

JOHN YOUNG,
Supt., Trade Exhibition.

CHANGE IN EXHIBITION DATES.

It has been decided by the Committee on Prizes and Exhibitions of the Massachusetts Horticultural Society, on account of the backwardness of the season, to make the dates for the June exhibition as follows:

Rhododendron Show—June 13 and 14.

Peony Show—June 20 and 21.

Rose and Strawberry Show—June 27 and 28.

WM. P. RICH.

NURSERYMEN'S CONVENTION.

The nurseryman who fails to attend the thirty-ninth annual convention of the American Association of Nurserymen at Cleveland, June 24-26, will not only do himself an injustice but will exhibit a great lack of appreciation of the benefits he has derived from the work of the Association. The attendance is going to be large, but the accommodations at the Hollenden Hotel, the convention headquarters, will be ample, and there are very comfortable quarters for the meetings on the hotel premises. The committees are determined nothing shall be wanting to make this a notable occasion.

Perhaps the question of railroad transportation demands more attention just now. Therefore we strongly urge all to see their own local agent now as to routes, tourist, excursion and other rates. Demand the fullest information regarding each, for the routings and rates are so varied that almost any personal wish can be met. For instance, tickets will be on sale from all points in Texas to Pittsburgh, Pa., and return at a fare of $46.65 from Denison. Those tickets can be routed via Big Four from St. Louis to Cleveland, the holder having option of return trip from Cleveland, or of taking what might be termed a free trip from Cleveland to Pittsburgh and return. Also that any one from the southwestern territory desiring to go to Buffalo or New York can obtain a reasonable round trip ticket allowing stop-over at Cleveland. Then, too, eastern passengers will be glad to learn that the Cleveland & Buffalo Transit Co. offers attractive rates between Buffalo and the convention city. In our announcement circular we gave brief synopsis of rates in force from the Pacific Coast, and also from prominent eastern points.

The Badge Book will be ready to mail to members in sufficient time to be received before leaving home for the convention. Those whose membership renewals are not received in time to be admitted into the Badge Book should, however, lose no time in sending fee to the secretary, so that it may appear in the published Proceedings of the Association.

JOHN HALL, Sec'y.

FLORISTS' CLUB OF WASHINGTON.

The next regular meeting of the Florists' Club of Washington will be held on Tuesday evening next and it is said that those who fail to attend will miss an entertainment such as has never before been produced by the club. Just what the program will be will not be given out by the entertainment committee for all numbers are to be surprises to the members and guests. President Cooke has arranged for some good stunts, in connection with the regular business of the club. A promise has been made by one of the members of a lawn party and this will probably take place the latter part of the month. The present corps of officers are doing their utmost to make this a banner year in the history of the Club.

WOMAN'S AGRICULTURAL CONFERENCE AT AMBLER, PA.

A very remarkable gathering of men and women took place at the School of Horticulture for Women on May 16, when the Woman's National Agricultural and Horticultural Association held its first conference. Over 400 enthusiasts flocked to the spot to listen to the speakers of national note and see the workings of this school, the first of its kind in the country. The meeting was held in the large stone barn and the quaint hay-filled mows decked with dogwood, wild honeysuckle and lilacs made a fitting background for the earnest, practical speakers, while the barn swallows and pigeons added their low accompaniment.

The meeting was opened by Mrs. H. B. Fullerton, a vice-president of the Association and Chairman of the Conference Committee. She said:

"There is but one cloud on our beautiful day, and that is the illness of our President, Mrs. Francis King, of Alma, Michigan. She sends greetings to you all and trusts the day will prove to you all she and her co-workers have striven so hard to make it. There are many societies and clubs in this country devoted to the interest and betterment of gardens, both flower and vegetable, but this association of ours has a larger and wider scope. It is formed with the sole purpose of helping women help themselves earn their living in God's sweet, beautiful, ever-changing out-of-doors.

"This somewhat new profession holds out many advantages over so-called clerical and office work, for it combines home and possessions with remunerative labor, calls forth the mother instinct and demands common sense; incidentally it will give to our nation a race of hardier, truer, better men and women.

"The Association is national and although it is but a few months old, it counts its members in twenty states. Anything that will further agricultural education for women, that will help to bring land owner and land worker in touch, that may bring producer and consumer into closer relation, that will spread abroad the knowledge of the vast army of women already intrenched in the agricultural profession, the Association intends to do."

Miss Hilda Loines then read Mrs. King's paper on the true role of the horticultural society, which was a translation from the French of Jacques Delafon. This author's idea of making the societies truly practical and spreading good reading matter among the people appealed very strongly to the audience. The next speaker was Walter P. Stokes of Philadelphia, whose topic "Seed Growing for Women" was one looked forward to with the keenest of interest; he said that seed growing offers a fine field of work for women and in Europe nearly all the work on the vast seed farms is done by women, though they do not own them. Women being more careful about details than men stand a greater show of success.

Mrs. J. Willis Martin, President of the Garden Club of America, in speaking of the co-operation of her club and the National Association, said that we can both do much to help beautify our country by working together for civic betterment, and we can help raise the standards of American gardens by having color charts as a guide to planting. A huge sigh of disappointment escaped from the audience when the chairman announced that Mr. David Fairchild of the U. S. Department of Agriculture could not be present. Mr. Fairchild's letter, however, left a feeling of his earnest desire to co-operate with the Association and his personal regret that he could not attend. He sent 100 udo plants to each one of which was attached a very attractive department bulletin fully illustrated with half tones. These were distributed among the audience as far as they would go and Mr. Fairchild further assured us "if anyone wants more plants they can obtain them by writing to me."



SOME OF THE SPEAKERS AND OFFICERS WOMAN'S NATIONAL AGRICULTURAL AND HORTICULTURAL ASSOCIATION CONFERENCE

Standing, Left to Right: Miss Martha Van Rensselaer, Mr. Walter P. Stokes, Miss Jane B. Haines, Mrs. B. Hammond Tracy, Mr. Geo. T. Powell.
Seated, Left to Right: Miss Hilda Loines, Mrs. S. H. Vollmer, Miss Jessie S. Morgan, Mrs. H. B. Fullerton, Miss Louisa G. Davis.

The meeting adjourned for an hour and a half recess. Luncheon was served in the farm home of the school, and the visitors had an opportunity to inspect the greenhouses, seed beds, nursery rows, berry fields, orchards, vineyards, carpenter shop, poultry houses and apiaries, where the twenty-six women students are doing such fine practical work. At 2 o'clock the meeting was resumed, a pleasant interchange of telegrams between the president and the Conference being read, when Geo. T. Powell, President of the Agricultural Experts Association of New York City, spoke on "Small Fruit Culture for Women." He emphasized the fact that women have always been and always will be successful farmers, and fruit growing is especially adapted to them because so much can be done on a small acreage. In speaking of strawberries he said there were three essentials—growing a variety adapted to your soil, a variety of high quality, and the command of sufficient labor to harvest the crop.



Mrs. H. B. Fullerton at the Speakers' Stand in the Barn in Front of the Hay Mow.

Miss Morgan, Director of the School, and One of the Students, Seated.

In introducing Miss Martha Van Rensselaer, of Cornell University, the chairman said: "Too many times women become so enthused with the idea of the out-door work, they forget we have to eat three times a day. Miss Van Rensselaer is here to keep our feet on the earth, and point the way to better farm housework and its needs."

Miss Van Rensselaer said that many letters come to her office asking for a home-making woman to join in partnership with a farming woman, but she cannot find them. This association should be able to do much to help find these women and the colleges stand ready to give them the instruction they need in the short courses. Housework must be brought up to the recognized standard of economic efficiency that stenography and bookkeeping have attained, and this must be done through women themselves making house work an art and not a menial, enslaving position.

W. P. Hartman, Chief of the Bureau of Markets and Information of Pomona Grange of Suffolk County, New York, spoke next on the object of this bureau and the work it had already accomplished. Prof. David E. Warner of State College, Pa., spoke on "Broilers for Profit." In introducing Mr. Bertrand H. Farr, of Wyncote, Pa., the iris expert, the c[illegible] like a child in saving the best for the last, for Mr. Farr's topic, "Raising Rainbows" held a great charm and allurement.

Mr. Farr's address was a beautiful word picture which we wish we could reproduce here. The whole day was worth a very long trip, and is a harbinger of conferences to follow.

SOUTHAMPTON HORTICULTURAL SOCIETY.

At the last meeting of the Southampton, N. Y., Horticultural Society, the soliciting committee reported fine success and the schedules will be ready in a few days. The prizes offered this year amount to nearly $750.00 besides several silver cups and other special prizes. The lunch and dinner table competition is open only to the ladies of the cottage colony. All other competition is open to all. Among the special prizes each year is one of $20.00 given by Mr. Samuel Parrish for filling and caring for ten vases on his art museum grounds. These are divided into two classes with first, second and third prizes in each class. They are drawn by number at the May meeting and must be filled by June 1st. They are inspected three times by a special committee appointed from the residents of the village, the last inspection on the first day of the exhibition when the prizes are awarded. The judges of vases this year are:—David J. Gilmartin, William Malcom and Ormiston C. Gardner. There is a prize for vegetables grown and exhibited by boys of the Union School. Mr. Parrish's art museum and grounds are open to the public and consequently the vases are viewed by many of the people of the village and add to the beauty of the park grounds, as well as create an interest in garden adornment generally.

NEW YORK FLOWER SHOW, 1915.

The Flower Show Committee held a meeting at the Grand Central Palace on Thursday, May 21st. The presidents of the different local horticultural societies had been invited to a conference to assist in the preparation of the schedule, especially as to the classes provided for the private growers.

The meeting was largely attended and the schedule was prepared as far as possible and will be completed at the next meeting, Tuesday, June 2nd, and they will be distributed immediately. The local societies are requested to have their representatives present at this meeting.

The Flower Show Committee is much pleased with the progress made and the great interest that is being taken in the coming exhibition. Several special prizes have already been offered. Contracts in the Trade Section for almost $3,000.00 worth of space have already been signed up and the guarantee list now amounts to over $3,000.00. The retailers have practically all agreed to support this exhibition. Secretary John Young will be pleased to furnish any information regarding same.

JOHN YOUNG, Sec'y.
53 W. 28 St., New York.

DATE OF PEONY MEETING AT CHICAGO.

A continuation of the present hot weather at Chicago where the annual exhibition of the American Peony Society has been scheduled for June 12th and 13th, may render it necessary to advance the date for the show several days or even a week. The dates will be fixed definitely June 1st and sent to all the weekly trade papers in time for publication in next week's issue.

M. BARKER, Sec'y Pro. Tem.

CLUB AND SOCIETY NOTES

The Gardeners' and Florists' Association of Holyoke, Mass., will hold a picnic sometime in the early part of July.

The St. Louis County Growers' Association will hold its regular monthly session on next Wednesday, June 4th. President Vennemann has returned home from his bridal trip and will preside. Some entertaining is looked for and a large turnout is probable.

The St. Louis Retail Florists' Association held a poorly attended meeting at the Washington Hotel on Monday, May 18, and it was decided that during the months of June, July and August the association hold no regular meeting unless specially called by the president.

Secretary Beneke, of the St. Louis Florist Club, says that the meeting on June 11th will be a most important one, as State Vice-President Robt. J. Windler has made a call for members of the S. A. F. in eastern Missouri to meet with the Florist Club on that date. The trustees are preparing to entertain all the visiting S. A. F. members.

The annual outing of the New York and New Jersey Association of Plant Growers will be held at the Hotel Kittatinny, Delaware Water Gap, Pa., on June 23. The Committee has this year arranged for a three day outing. Members and friends will leave on the Delaware, Lackawanna & Western Railroad from Hoboken on the "Lackawanna Limited" at 10.15 A. M. arriving at the "Gap" at 12.03 noon. Returning the party will leave the "Gap" at 5.25 P. M., June 25, arriving at New York at 7.30 P. M. Special Cars for the exclusive use of the party will be attached to both trains.

At the monthly meeting of the Tarrytown Horticultural Society, May 20, a beautiful display of hardy shrubs and herbaceous flowers was staged, 1st prize going to D. G. Reid, supt. A. Golding, and 2nd to Miss B. Potter, supt. G. Wittlinger. A cultural certificate was awarded to D. G. Reid, gard. T. Morris, for vase of Mrs. Hugh Dickson sweet peas, and one to W. B. Thompson, supt. S. R. Candler, for Cattleya gigas, and a certificate of merit for a sport of Marguerite Mrs. Sander. C. Wilson received honorable mention for pink snapdragons and a vote of thanks was extended to Mrs. A. Golding for wild flowers. Owing to the late spring the date of the June show will not be decided on until June 5. Refreshments will be served at the next meeting. THOMAS A. LEE.

An unusually effective and brilliant display of tulips, lilacs, primroses, and dogwood was exhibited by W. C. Mason, Friday evening, May 22, at the meeting of the Conn. Horticultural Society. Walter E. Cook representing Stumpp & Walter Co., who was a visitor, stated that the exhibit of tulips was an unusually fine one, also comparing conditions at Hartford with those at Lenox and Trenton. The chair named Mr. Cook, George B. Baker and George T. Whitten judges, and they awarded the exhibit a first-class certificate. George H. Hollister, superintendent of Keeney Park, spoke concerning the elm-leaf beetle. He said that this insect spent the winter in all kinds of dry places, such as belfries and attics, where as long as it kept dry it remained uninjured by very low temperatures. He recommended the use of arsenate of lead at the rate of about three pounds to fifty gallons of water. ALFRED DIXON, Secy.

NEMATODES AND CLUB FOOT.

Editor HORTICULTURE:

I have been getting letters recently from peony growers relative to nodules formed by nematodes on peony roots. Some are apprehensive that they are identified with the French club foot disease, which is fatal. Now the two are no more related than the chicken pox and the deadly typhoid. Peonies with the club foot have no fibrous roots. They can neither grow nor bloom. Specimens have been sent to different experiment stations, and about every one gives a different answer. One professor received specimens with harmless modules on them and said "Destroy all the roots and disinfect the ground." Bosh! I have raised peonies over thirty years, and for the last sixteen years have made a specialty of them. This professor can give theory and jump at conclusions, but I give cold facts. One year, in rich ground, I saw some of my peonies were making a very robust growth and the leaves were bright and healthy. I had occasion to dig them up and found they were overwhelmed with nematode modules. On close examination subsequently I found Marechal Valliant, Gandiflora Rosea, one of the most floriferous of all, and Andre Laurias were almost always in this condition, and I made up my mind from the vigor of the plants that these bacteria were doing for the peony what the same or kindred bacteria were doing for alfalfa. In all my experience and careful researches I never knew any injury from them. Of course, for the looks, in selling we strip them off. Now these are bare, cold facts. There are other causes for deterioration which perhaps have been wrongly charged to these. One is planting on the same ground; another is leaving the roots too long without dividing.

The imported club foot French disease is incurable. I have planted them in slacked lime to no purpose. Then one fall I got a washtubful and poured in strong lye and let them soak a week. I effectually cured them all; the disease could not possibly survive, but I killed every root. I give this sure cure. There is no patent on it and I know it will work.

So let me say to peony growers don't get things mixed. Some time ago I sent both kinds of roots to Prof. Bessey at Miami, Florida, and he said he found *no nematodes whatever* on the club-footed ones, and that the two were entirely distinct.

C. S. HARRISON.
York, Nebr.

The governor of Massachusetts has signed the bill appropriating $210,000 to the college at Amherst for the construction of an agricultural building. It will have an assembly hall that will accommodate 800 to 1000 men and will relieve the college, by a year from next fall, from the crowded conditions that exist in the present chapel.

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EXTRA LARGE PLANTS IN TUBS AND BARRELS FOR SUMMER FLOWERING

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Fine plants in tubs.....$2.00 and $3.00 each.
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We predict that it will become a veritable shrine for the florist fraternity from all over the country—that imposing and altogether unique flower building which F. R. Pierson has under construction and which is now approaching completion. Its fine proportions, classic architecture and pergola approach command attention and make it easily the most conspicuous business structure in Tarrytown and as a floral establishment, nothing in the country can compare with it in its every appurtenance and detail. The frame is of steel throughout, the exterior of a sparkling artificial stone, the lofty interior of Caen stone, the window and door frames of copper, the floors of tile wainscoting of marble and there is a show case which cost $2500 to construct. In short, every detail has been worked out with the purpose of making it the best conceivable. In the near future we hope to be able to show an illustration of this building and give some further details.

DEFENDING THE ENGLISH SPARROW.

The Women's Welfare Club of Marquette, Mich., has adopted a memorial, addressed to the Legislature, asking the repeal of the law which provides for the payment of a bounty of two cents a head on English sparrows during the months of December, January and February. Women's clubs, suffrage associations, D. A. R. chapters and various other organizations will be requested to cooperate in the movement.

The memorial recites the belief of the club that "the damage done by the English sparrow—either by his alleged untidy habits or by his belligerence toward other birds—has been greatly exaggerated, and his good qualities as an insect destroyer and weed eater have been underrated.

The action of the Women's Welfare Club followed closely on a visit to the city of J. H. McGillivary, Deputy State Forestry Warden. Mr. McGillivary consulted with a committee of the club and addressed a large assemblage at the Northern State Normal School.

It is his opinion that the law allowing bounty for English sparrows is a detriment to useful bird life and to the country.

In the State of Michigan there are at least 24 kinds of sparrows other than the English sparrow. The average boy is unable to distinguish the different species, and as a result all suffer alike.

VIOLETS

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WILLIAM SIM, CLIFTONDALE, MASS.

THE USE OF FORMALDEHYDE.

Review of Bulletins 369 and 370, New York Agricultural Experiment Station.

Formaldehyde, in liquid or gaseous form, has been recommended and much used as a substitute for corrosive sublimate in disinfecting potato tubers used for seed. The gas treatment is very convenient and has until very recently been considered both safe and effective; but in treating a lot of tubers at the Station at Geneva in 1912, serious injury was caused by the gas. Subsequently, many tests were made to ascertain the reason for this unexpected trouble, which was finally found to be due to the use of too large a disinfection room for the amount of tubers treated. The gas collects on the surface of the potatoes by absorption; and if the amount in the room be out of proportion to the surface of the potatoes, the absorbed gas becomes so powerful that it destroys the tissues of the tuber, particularly about the eyes and lenticels.

The tests also gave opportunity to study the effectiveness of the gas on the fungus Rhizoctonia, which causes several potato troubles; and it was found that the treatment is not as reliable as had been supposed.

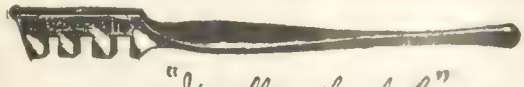
The authors advise the gas treatment only where it is impracticable to use either liquid formaldehyde solution or corrosive sublimate. The formaldehyde solution may be used where the potatoes are infected with scab only; but if Rhizoctonia is present the corrosive sublimate should be employed. Where the gas treatment must be used the disinfection chamber should not be so large that it contains less than 10 lbs. of potatoes to the cubic foot.

The bulletins will be sent free to those who request them.

Montreal—A press dispatch states that because he is an American citizen, T. McG. Black of Pittsburgh, park superintendent of this city, has been reduced in office to be temporary assistant park superintendent by Mayor Mederic Martin and Dr. Gadbois, a French Canadian, was appointed superintendent in his place.

"I will not have a foreigner drawing a salary of $2500 a year in Montreal," said the Mayor, when told that Mr. Black had been recommended for the post by influential citizens. "English, Scottish, Irish or Canadian, but not foreigners," he insisted.

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Milady, 3½-inch	15.00	135.00
Mrs. Geo. Shawyer, 2½-inch	12.00	100.00
Killarney Brilliant, 2½-inch	30.00	.....
Mrs. Geo. Shawyer, 3½-inch	15.00	135.00
Mrs. Taft (Bulgarie), 3½-inch	15.00	135.00
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Killarney, 2½-inch	6.00	55.00
Mrs. Taft (Bulgarie), 2½-inch	6.00	55.00
Mrs. Aaron Ward, 2½-inch	6.00	55.00
Milady, 2½-inch	6.00	55.00
Sunburst, 2½-inch	7.50	70.00
Killarney, 3½-inch	8.50	75.00
Mrs. Ward, 3½-inch	8.50	75.00
Mrs. Geo. Shawyer, 3½-inch	8.50	75.00
Milady, 3½-inch	8.50	75.00
Richmond, 3½-inch	7.50	65.00
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YELLOW—Chrysolora, Crocus, Bonnaffon.

PINK—McNiece, Enguehard, Maud Dean, R. E. Leoben, Wells' Late Pink. Per 100
Alice Salomon, white, rooted cuttings ..... $ 7.00
Chieftain, pink, rooted cuttings 12.00
Golden Salomon, yellow, rooted cuttings 20.00

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PARKINSON, single yellow.
Dark Single Pink.

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EMULATION.

Springfield is ambitious to possess a rose garden that will rival and even surpass the celebrated garden at Elizabeth park in this city. This is a praiseworthy ambition. Rivalry in matters of this kind is bound to prove more helpful than harmful, and the word from Springfield that it is to become a competitor is a forewarning of which due notice may be taken. Springfield estimates that seven years will be sufficient to develop a mature garden in full beauty. Meanwhile, Hartford's garden, barring unforeseen happenings, will not remain at a standstill, but, instead, become seven years better. The lead is a long one, and the task of keeping it will not be easy.—*Hartford (Conn.) Times.*

Pittsburg has adopted the dandelion as the "flower" symbolic of Fathers' day. This looks as though it was intended there to make light of Fathers' day. Nothing could have been named that grows out of the ground that father detests as heartily as he does the dandelion. It has ruined more lawns and more tempers than any other pest that ever afflicted humanity.—*Rochester Democrat and Chronicle.*

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LOBELIA, Katherine Mallard, dwarf double R. C., $1.00 per 100; 2¼ in. pot, $1.75 per 100.
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FEVERFEW, Little Gem, $2.00 per 100.
VINCAS, 2¼ in. pot, $2.00 per 100; 3 in. pot, $4.00 per 100; 4 in. pot, $8.00 per 100.
AGERATUM, 2¼ in. pot, $1.50 per 100; $12.00 per 1000.
ASPARAGUS SPRENGERI, 2¼ in. pot, $2.00 per 100; 3 in., $3.00 per 100 strong.
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DRACAENA INDIVISA, 4 in. pot, $8.00 per 100.
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GARDENERS.

Editor Horticulture:

With your permission I would like as a professional gardener, to "butt in" upon the correspondence in connection with gardeners' salaries especially with regard to the paragraph which appears in your issue of May 16, under the head of Philadelphia Notes; also to add some thoughts upon the professional situation generally.

As a member of the executive board of the N. A. G., I venture to think that no one upon that board would for a moment entertain any movement having for its object the degradation of the Association into a labor organization. Nothing in the present day is more detestable, more devoid of every right principle and more degrading to those connected with it, than trade unionism. It is a movement of tyranny unexampled in the world's history, a tyranny which thousands of working men—using the term in its popular sense—would be only too glad to throw off.

A minimum wage has little in its favor in any case, and the idea is certainly out of place when applied to a profession like gardening where it is not the amount of work but knowledge and skill in directing others which make for efficiency. The men calling themselves gardeners who as your correspondent states are only receiving fifty dollars a month are no doubt getting all, and probably much more, than they are worth as such. And there is also no doubt that were these fifty dollar jobs filled by men thoroughly proficient in all branches of their profession at double or treble the salary, their employers would find themselves actually cash in pocket, to say nothing of results. But as long as there are some employers who are ignorant and short-sighted enough to think that a low-priced man, however incompetent, is the cheapest, so long will the fifty-dollar gardeners exist. In this connection a good deal of the fault lies with some of the seedsmen. Any man who has ever bought packets of seed of some firms can get recommended for a position without inquiry into his antecedents. This is one of the places where the employment bureau of the N. A. G. comes in. Before a man can get upon its books a very searching and exhaustive investigation is made into his ability and character, not by people who are looking for the man's trade when he gets a job, but with the one idea only of seeing that the man is thoroughly competent to fill the vacant position.

I have, however, very strong reasons for believing that the bulk of private estate owners take a different stand upon the matter than one of your correspondents appears to think. They are not, as a whole, congratulating themselves that they can get men at whatever price they choose to offer, but on the contrary are complaining of the absolute dearth of first-class professional men with executive and business abilities and a knowledge of the scientific principles of their profession, expert in all branches of estate management. It is, I believe, a fact that men of this latter class have little, if any, trouble in getting positions at a reasonably good salary.

Recently a young man wrote to me stating that he was looking for a position to take charge of a private estate but all he could advance in his own favor was that he had given satisfaction in the only position he had held in this country, which was three years in a private greenhouse. This very prevalent and narrow idea of the requirements of an estate manager is a great blot upon the profession and it is standing in the way of its taking the position to which it should be entitled. Good florists can be easily obtained by the hundred, but among them it would be difficult to find five per cent. with a thorough knowledge of hardy plants, shrubs and trees.

Years ago, not after all so very many, wealthy people were contented with a mansion upon, for instance, Fifth Avenue, and their only conception of flowers was what they bought at the florists. When the idea of a country estate in addition began to materialize, the production of these same flowers upon their own place was about as far as their knowledge permitted them to go, supplemented by a few beds of things like geraniums stuck about their lawns. As in those days professional gardeners in the real and widest sense were almost unobtainable in this country, men trained in florists' establishments were the only resource. Today the better education of estate owners has given them wider ideas causing them to require a garden in its real sense. Fortunately for artistic gardening the "bedding out" system is dying out and people are at last becoming educated to the beauties of old-fashioned flowers—as hardy perennials are sometimes called—used in a natural manner, and which give variety both of form and color as well as abundance of flowers for cutting during the greater part of the year, without the expenditure of an ounce of coal.

While ideas of gardening have advanced to a far higher and more artistic level of late years it is to be regretted that the profession as a whole has not kept pace with the advancement. A member of one of the largest firms in the country supplying private estates with seeds and plants said a few months ago that there is a positive dearth of gardeners who are well up in hardy plants and shrubbery, and that he knew many estate owners who were much discouraged in consequence. It is astonishing that so many of the so-called landscape architects (a class which has recently sprung up like mushrooms and judging from their work, their existence will be quite as ephemeral) are frequently quite as ignorant. Recently the writer had the opportunity of seeing plans for laying out two estates in neither of which was any provision made for hardy perennials. A few years ago an estate owner, who was sensible enough not to allow his place to be under the bedding out system, after repeated efforts to get a reasonable amount of attention to be given to hardy flowers, pulled down practically the whole of his glass as he would rather be without flowers in the winter than in the summer. After all it does not require much glass to furnish sufficient cut flowers for an odinary-sized dwelling house from November to April.

Returning to our muttons, it appears to me unreasonable to expect an estate owner to pay a large salary to a one-sided man however expert he may be in one thing, especially if the employer wants more of another which the manager understands little or nothing about. Of course one is not blind to the fact there are first-class all-round men who do not receive the appreciation they should. To the average professional man in the real sense of the term, his work is a labor of love to which he gives his entire self. Many men are discouraged and prevented putting forth their best by the want of encouragement on the part of their employers. A man goes to his work day by day with renewed vigor and energy if he feels that he is appreciated; that his constant striving after more and better results are recognized and that his position as a professional man is acknowledged. This kind of thing goes much further than an increase in salary. No amount of salary will supply the want of appreciation especially when coupled with a policy of petty pinpricks and a constant inculcation of the idea that he is nothing more than a servant.

If the profession wishes to obtain that full and complete recognition to which its requirements and knowledge entitles it, still further steps must be taken to place itself in the professional class by acknowledging the value and necessity of scientific attainments. Men are graduating every year from agricultural colleges who on that account consider themselves fitted for the position of private estate managers. Employers, too, are in many cases under the impression that a college man is necessarily better than one without college education, and so he is, if all other things are equal, but they are not so. The college man lacks as a rule, practical experience, and generally the man with long practical experience lacks scientific knowledge. Although plenty of instances can be found where college men have fallen down when they have attempted to run either a farm or garden this has not been because of, but in spite of, their college education. To produce the best results practice must be combined with science so that a man may have a knowledge of the why and how of what he does. A man with practical experience who will take the trouble to acquire a working knowledge of the scientific principles of his profession can do so with greater ease and apply them with greater benefit to his practise than a man starting to learn these principles without any practical knowledge whatever. A practical man is capable, or he should be, which a college student is not, of distinguishing between the facts of science and the theories of scientific men; the latter are frequently wrong, the former never. Whatever value the experienced gardener may himself place upon the knowledge and skill gained through years of study and practical work he must make up his mind that scientific education has come to stay and act accordingly.

In Britain the profession has also some grounds for complaint in connection with the existence of ignorant and incompetent men calling themselves gardeners, (although not to the extent as here, because there employers have more horticultural knowledge themselves) who sometimes manage to get positions upon the smaller places. The profession there are consequently welcoming the initiation by The Royal Horticultural Society of England of a scheme whereby a National Diploma in Horticulture may be gained by those

who pass the Preliminary and Final Examinations which will be required. The examination will be practical, viva voce and written. The practical part will be held in suitable gardens at different centers and entrants will be required to carry out under the examiners' eyes any work which may be required of them. Employers in that country are encouraging, and in many cases expecting, their gardeners to try for this diploma, and no doubt in a few years' time a man seeking a position as gardener upon any estate of consequence will, all other things equal, stand a very poor chance unless he holds this diploma.

As our much-respected secretary, Mr. Ebel, said, the National Association is not directly concerned with the question of salaries. Its aim is rather at the general uplift of the profession gardener and estate superintendent, and the recognition by employers of the profession as such; believing that the question of salaries will adjust itself; in other words a good man will have no trouble in getting a good salary.

It is no doubt a truism that there are black sheep in every flock, both amongst employers and employed. One of the duties of the association is to see that its members are all white. Further the professional ability of its members should be unquestionable, and to this end it is to be hoped that the Association will initiate a movement such as that which has come to fruition in the old country so as to enable members of the profession to obtain a diploma under such safeguards as will procure its recognition as evidence that its holder possesses ability of a far higher nature than a pass certificate from a college.

On the other hand those who think that the N. A. G. should become a trades union had better start one as a separate organization. They will then be able to recruit to themselves, like other unions, all the least competent of the profession and draw out all the black sheep, and thus save the trouble of sorting.

ARTHUR SMITH.

SUMMING IT UP.

Mr. Ebel now admits that educating the employer up to the point where he will pay his gardener a decent salary is not "a fallacy" as he at first claimed. In fact, he claims that that very thing is now being done. Glory be. That is what he started the controversy about, so all's well. The other points are mostly personal and of no importance. It may be mentioned, however, that the writer never said anything about unions, trade or otherwise, except to answer Mr. Ebel's question: "Had he ever heard of a profession being successfully unionized?" Anyone who has read Aristotle knows that that form of government is best which is best administered. If the gardeners' society is well administered it will be a good trade union. And if it takes a leaf from the lawyers' trade union it will not admit anyone to its bar without passing an examination and it will reserve the right to disbar for cause. There are "kail gardeners" just as well as "shyster lawyers."

G. C. WATSON.

THE GLAD HAND

GLADIOLI—GLADIOLUS—GLADIOLUSES

Which is right? The only way to find out is to plant some of our stock and if planted now or even later, they will bloom when the earlier planted stock is passed; which means higher prices for the flowers and is good business.

We offer the following varieties less 5 per cent if cash accompanies the order:

Boddington's Quality Gladioli

AMERICA (Our Specialty). This beautiful new Gladiolus has produced as great a sensation as the now famous Princeps. The flowers, which are of immense size, are of the most beautiful flesh-pink color, and, as a florist who saw it said, it is "fine enough for a bride's bouquet."

Selected Bulbs, 2 to 2½ inches.....$1.50 per 100, $12.00 per 1000
1st size, 1½ to 2 inches..... 1.25 per 100, 10.00 per 1000
2nd size, 1¼ to 1½ inches..... 1.00 per 100, 9.00 per 1000

	100	1000
HOLLANDIA (The Pink Brenchleyensis). Flowers well arranged on a spike which attains a height of about 4 feet. Often as many as 30 blooms of a charming pink shade tinted yellow are open at one time. First size bulbs.....	$1.75	$15.00

PEACE. The flowers are large, of good form and correctly placed on a heavy, straight spike. They are a beautiful white, with a pale lilac feathering on the inferior petals. "Peace" is not an early bloomer, but rather medium to late, and planted at the same time with other stock, it is in its best condition when most other varieties have passed blooming. Per doz., $1.25; per 100, $9.00; per 1000, $85.00.

Grand Novelty Orchid-flowered Gladiolus

	Doz.	100
MRS. FRANK PENDLETON, JR. Order early to procure Mrs. Frank Pendleton, Jr. Awarded First-Class Certificate of Merit by the Massachusetts Horticultural Society of Boston and by the American Gladiolus Society at Baltimore, 1911. Its color is the most exquisite salmon-pink with a very conspicuous blood-red blotch in the throat on the lower petals. Per doz., $5.00; per 100, $40.00.		
PINK AUGUSTA. Color a lovely soft pink. This variety is especially suitable for forcing under glass, for which purpose it is especially recommended. Per doz., 35c.; per 100, $2.50; per 1000, $20.00.		
I. S. HENDRICKSON. A beautiful and irregular mottling of white and bright, deep pink; in some the pink and in others the white predominates. Flowers and spikes very large and fine.....	$.75	$4.75
MADAM MONNERET. Delicate rose; late bloomer..... Per 1000, $26.75..	.50	2.75
BRENCHLEYENSIS (true). Fiery scarlet.		
Top roots, XXX, 2 and 2½ inches.....	1.50	14.00
First size bulbs, XX, 1¾ to 2 inches.....	1.25	12.00
Second size, X, 1 to 1¾ inches.....	1.25	10.00
BODDINGTON'S WHITE AND LIGHT.		
First size, XX, 1¼ to 1½ inches.....	1.25	12.00
1900. Nothing finer for florists' use. Flower is of a rich shade of red, with very prominent white spots on three lower petals.....	1.75	15.00
MRS. FRANCIS KING. Color of flower is a light scarlet of a pleasing shade.		
First size, XX, 1¼ to 1½ inches.....	1.75	16.00
PRINCEPS. Color rich crimson, with broad white blotches across the lower petals. Flowers can be grown to nearly 8 inches in diameter under stimulating culture.....	3.75	35.00
GROFF'S HYBRIDS (Originator's strain).		
First size, X, very fine mixture.....	1.00	9.00
SHAKESPEARE. White and rose.....	4.25	40.00
AMERICAN HYBRIDS. XX. A mixture of the choicest varieties of Gladiolus in equal proportion; very fine.....	1.00	9.00
AMERICAN HYBRIDS. X. Very fine mixture.....	.85	7.50
STRIPED AND VARIEGATED.....	2.25	21.50
PINK AND ROSE SHADES.....	1.75	16.00
ORANGE AND YELLOW SHADES.....	3.50	32.00
SCARLET AND RED SHADES.....	1.50	14.00
LEMOINE'S HYBRIDS.....	1.50	12.00
CHILDSII. First quality, mixed, dark shades.....	1.75	16.00
Good quality, mixed; light shades.....	2.50	22.50

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SEED TRADE

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American Seed Trade Association.

Notice is hereby given of the 32nd Annual Convention, which is to be held at Washington, D. C., June 23, 24, 25, 1914, with headquarters at The Raleigh, corner of Twelfth and Pennsylvania Avenue.

Special rates on the European plan have been granted as follows:

Single rooms, without bath $2.00, with bath $3.00 per day and upward.
Double rooms, without bath $3.00, with bath $4.00 per day and upward.

The National Capital of itself, should attract a large attendance, but there are two subjects on the program that should especially appeal to all members who are concerned about the future of the Seed Trade, that of our counsel on "The Use of the Disclaimer" and of Mr. Bruggerhof on "The Cental System." These two subjects are apropos because of the noticeable trend of legislation along these lines and it is therefore hoped that there will be a full attendance to fully discuss these matters. Program is as follows:

Opening Sessions, June 23, 10 o'clock A. M.

Selling Seeds at Wholesale—Salesmen—Catalogues—Surplus Lists and Circulars. Watson S. Woodruff, Orange, Conn.

Printer's Ink Advertising — Farm Journals—General Advertising. A. E. McKenzie, Brandon, Man.

Trial Grounds and Their Advantages to Seedsmen. Dr. W. W. Tracy, Washington, D. C.

The Cental System of Selling Seeds and Its Advantages. F. W. Bruggerhof, New York.

The Proper Use of the Disclaimer. Curtis Nye Smith, Boston, Mass.

Overhead Costs System. Max Fischer, Washington, D. C.

Social Features—Tuesday Evening, Annual Banquet. Plans are being made for a trip to Mount Vernon, Arlington and the City of Washington and also for a Reception to the Ladies.

C. E. KENDEL, Secy.

J. Bolgiano & Son of Baltimore, have established in connection with their seed business a Free Employment Department under the management of Claude B. Ramsay. Several hundred people have already found profitable and healthful employment through this department with no cost either to the employer or the employe. Mr. Ramsay stated he finds among the applicants mostly men who have been born and reared on the farm; but, from tales of the wealth that could so easily be acquired in the big cities, they had been lured from a good livelihood in the country to the city in search of some of the so easily gotten wealth. With the majority, it takes but a very limited time for them to find out their mistakes and they are more than glad to have another opportunity in the country. Every applicant's past record is carefully searched and only those who are found to be honest, reliable, sober, capable men of good character are given consideration. With the employer it has been found to be a mighty great help, as by simply applying to this Department, they are furnished with help that can be relied upon and are, thereby, relieved of the trouble, worry and annoyance occasioned in order to get help of this character.

GOVERNMENT ACQUIRES PISGAH FOREST.

The beautiful mountain estate of the late George W. Vanderbilt crowning the Alleghany mountains in western North Carolina, 86,700 acres in extent, will soon become a part of the national forest reserve. The national forest reservation commission approved at Washington Thursday the purchase of the vast Pisgah forest tract at an average price of $5 an acre, which brings the total cost to $433,500, a considerable discount from the figure at which Mr. Vanderbilt was willing to dispose of the property, even with the federal government for his purchaser. The tract includes portions of Transylvania, Henderson, Buncombe and Hayward counties in North Carolina. It covers the entire eastern slope and considerable portions of the northern and western slopes of the Pisgah range, one of the most picturesque of the southern Appalachian mountain chain.

In accordance with Mrs. Vanderbilt's expressed wish the commission will retain the name of Pisgah forest. It also purposes to make of it a game refuge for the preservation of the fauna of the eastern mountains. It is particularly well suited to this purpose, as it is already well stocked with game and fish, including deer, wild turkey and pheasants, and in the streams are rainbow and brook trout. The members of the commission regard the acquisition of the Pisgah tract as the best purchase yet authorized because the forest is in the finest possible condition. With this purchase and with others approved Thursday the sum total of acreage of the new Appalachian forest reserve is now approximately 1,077,000 acres.

OBITUARY.

Prof. Bert C. Georgia.

Prof. Bert C. Georgia, who, since February, 1913, has been at the head of the market gardening department of Massachusetts Agricultural College, Amherst, died suddenly on Sunday, May 24, at Orient Springs, where he had gone with a week-end party. His body was removed to Ithaca, N. Y., on Monday. Through his genial manner and pleasing personality, Prof. Bert had won many friends among the students in the brief period he had been connected with the college.

A correspondent of The Garden, London, suggests the planting of chionodoxa bulbs in June or July instead of in late fall as is the usual custom. He states that if planted in summer and at a good depth they will produce flowers equal to those that have been planted a number of years.

Michell's Primroses

Primula Chinensis

	½ Trd. Pkt.	Trd. Pkt.
Prize Mixture, even blending, all colors	$.60	$1.00
Alba Magnifica. White	.60	1.00
Chiswick Red. Red	.60	1.00
Duchess, White, rosy carmine; yellow eye	.60	1.00
Holborn Blue	.60	1.00
Kermesina Splendens. Crimson	.60	1.00
Rosy Morn. Pink	.60	1.00

Primula Obconica Gigantea

Lilacina. Pale lilac	.50
Rosea. Pink	.50
Kermesina. Deep crimson	.50
Alba. White	.50
Hybrida Mixed	.50

Michell's Cinerarias

Dwarf Grandiflora Prize. Mixed colors	.60	1.00
Medium Tall Grandiflora Prize. Mixed colors	.60	1.00
James' Giant Strain. Mixed colors	.60	1.00

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PLUMOSUS NANUS SEED.

Greenhouse Grown.

100	$0.50	5,000	$15.00
1,000	3.25	10,000	29.00

Lathhouse Grown.

100	$0.35	5,000	$12.00
1,000	2.50	10,000	23.00

ASPARAGUS HATCHERI SEEDS.

100	$1.00	500	$3.25
250	2.00	1,000	6.00

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MICHELL'S SEED HOUSE

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SWEET PEA TRAINER OR SUPPORT.

I found last year the best support for sweet peas, running up to 8 feet or 10 feet, is to run chair cane, the unpolished or second-class kind, between posts on each end of the rank at intervals of 6 inches in height to the top, which may be a bar of wood not too heavy, and to tie upright strands to these horizontal ones at the same intervals from the top to the bottom. This cane is cheap—about sixpence a quarter of a pound — is warmer than wire, and does not sag like string. It lasts for years. If soaked in water for ten minutes it's as easily tied as string, and stiffens when dry. The size of the cane I have used is No. 3 and No. 4. The strands run about 15 feet or 16 feet long.—E. RIGHTON in *The Garden.*

AMHERST NOTES.

The seventh session of the summer school of agriculture and country life at the Agricultural College at Amherst, Mass., will open June 29. Four hours of class work is arranged for each forenoon. Laboratory work, educational trips and excursions, and class conferences will occupy the afternoons. The evenings will be devoted to lectures upon vital subjects by men of national repute and to social gatherings. John R. Boardman, of New York City, Dr. G. Walter Fiske, of Oberlin, O., and William C. Landon, of New York City, are included in the faculty. The summer school bulletin may be procured from William D. Hurd, Amherst.

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Of Interest to Retail Florists

John G. Panos, 2024 Lexington avenue, New York, liabilities $4,927, has been granted a discharge from bankruptcy.

Vincent Jones, of the firm of Joseph Jones & Sons, florists, of Wappinger's Falls, N. Y., has accepted a position with Schaffer & Company, of Newburgh. John Jones will continue to conduct the firm's business in West Main street.

STEAMER DEPARTURES

Allan.

Pretorian, Boston-Glasgow..June 3

American.

St. Paul, N. Y.-S'hampton..June 5
St. Louis, N. Y.-S'hampton..June 12

Atlantic Transport.

Minnewaska, N. Y.-London..June 6
Minnehaha, N. Y.-London ..June 13

Cunard.

Ultonia, N. Y.-Mediterr'n'n..June 2
Franconia, N. Y.-Liverpool..June 9
Aquitania, N. Y.-Liverpool..June 10
Saxonia, N. Y.-Mediterr'n'n..June 11

French.

La Lorraine, N. Y.-Havre...June 3
Floride, N. Y.-Havre.....June 6
Chicago, N. Y.-Havre.....June 6
La Savoie, N. Y. Havre.....June 10

Hamburg-American.

Cincinnati, Boston-Hamb'rg..June 2
Gr. Waldersee, N. Y.-H'mb'g..June 4
Imperator, N. Y.-Hamburg..June 6
Kn. Aug. Vic., N. Y.-H'mb'g..June 9

Holland-America.

Potsdam, N. Y. Rotterdam..June 2
New Am'dam, N. Y.-Rot'dam..June 9

Leyland.

Bohemian, Boston-Liverpool.June 6

North German Lloyd.

Kr. Wilh'm II, N. Y.-Bremen.June 2
Berlin, N. Y.-Bremen.....June 4
Gr. Kurfuerst, N. Y.-Br'm'n.June 6
Kr'p'z Wilh'm, N. Y.-Br'm'n.June 9

Red Star.

Kroonland, N. Y.-Antwerp..June 6
Finland, N. Y.-Antwerp.....June 13

White Star.

Baltic, N. Y.-Liverpool.....June 4
Majestic, N. Y.-S'hampton..June 6
Canopic, Boston-Mediterr'n..June 6

New York.—R. Willburger has sold out his business at 530 Third avenue to John H. Meyer, who has been in his employ for 30 years. The transfer was made on May 1, but was not made public until May 25.

Max Schling, the enterprising New York florist who is forever doing something that no other florist ever thought of or attempted, has issued a catalogue comprising about a dozen illustrations in natural colors of beautiful plant and flower arrangements. "Nature's Place of Art," is the title. All the illustrations are made from the original creations by Mr. Schling and are excellent examples of modern floral art. We understand that any one wishing duplicate plates can so arrange by consulting Mr. Schling.

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Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
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New York—Dards, N. E. corner 44th St. and Madison Ave.
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New York—George M. Stumpp, 761 Fifth Ave.
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New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
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Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and I St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

Wilmette, Ill.—Pyfer & Olsem, Railroad street.

Pittsburgh, Pa.—Ray Daschbach, 417 Wood street.

Newark, N. J. George Penek, 181 Broad street.

Milwaukee, Wis.—Tom Cassidy, 464 Milwaukee street.

Chicago, Ill.—Kostka, the Florist, 5437 W. 25th street.

South Norwalk, Ct.—George Psychos, 2 S. Main street.

Buffalo, N. Y.—Raeker's Flower Shop, 60 Elmwood avenue.

Albany, N. Y.—James Lascaris and Louis Carantezali, Arkay Building.

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3 PLEASANT ST., WORCESTER, MASS.
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WASHINGTON NOTES.

Mr. and Mrs. J. Henry Small, Jr., Washington, D. C., are visiting their son in Cleveland, O.

Henry Pfister is giving up his store at 118-120 Connecticut Avenue, Northwest, due to an inability to renew the lease thereto. No information has as yet been given out as to Mr. Pfister's plans for the future.

George H. Cooke, of Connecticut Avenue and L streets, is being forced to look for a new location due to the proposed tearing down of the building in which he is now located. The new building will occupy the site of several of those in the block and upon the completion of the work Mr. Cooke will have the second store from the corner of L Street and facing on Connecticut Avenue. Mr. Cooke has not as yet completed his plans covering the intervening four months, but in all probability he will take a store in the vicinity for that period.

It is reported that W. A. Taylor has been selected to succeed Dr. B. T. Galloway as assistant secretary of agriculture when the latter leaves for his new duties at Cornell University, the latter part of August. Mr. Taylor, prior to becoming connected with the bureau of plant industry, of which he is at present the chief, was an assistant pomologist. Three years ago, when H. G. Powell was acting chief of the bureau of plant industry, Mr. Taylor became his assistant and later he became the permanent assistant chief. About a year ago upon Dr. Galloway's appointment to his present position. Mr. Taylor was made chief of the bureau. He is a man of wide experience in technical agricultural work and has had considerable experience in the department as an administrator.

CHICAGO NOTES.

Guy French, president of the Chicago Florists' Club, states that their car known as the "President's Special", going to the S. A. F. convention over the Lake Shore R. R., has many florists now booked and Pres. Wirth and the Minneapolis florists will be in their party.

All kinds of accessories to the florists' stock show an increased demand rather than otherwise. The wreaths of magnolia leaves and prepared materials also gain in popularity each season. At Poehlmann Bros., T. Waters of the supply department states that the sales of these wreaths have been very large.

A feature of the American Beauty Section at Poehlmann Bros. this week is a large house of that rose, grown on purpose for short-stemmed flowers, always in such demand for Memorial Day. The plants are a mass of buds, on stems ranging from ten to fifteen inches, and the grower says this crop of Beauties was timed as carefully as the long ones for other occasions.

Worcester, Mass.—The florist shop of C. L. Midgley & Co., 209 Main street, has been bought by Carl Everberg, Woburn. Mr. Everburg is now in possession of the shop, although Mr. Midgley will remain for a time longer in general charge of the business, which he has conducted there for several years.

FROM FATHER TO SON.

George M. Stumpp, New York's well-known florist, turned over to his son, George E. M. Stumpp, on May 16th, the business at 58th street and Fifth avenue. George Stumpp established himself at 58th street and Madison avenue, thirty-four years



GEORGE E. M. STUMPP.

ago. Eighteen years ago he moved to the palatial store on Fifth avenue, which he has occupied ever since. He has been prosperous from the start and nobody who knows him will envy Mr. Stumpp his well-earned retirement from business cares. He goes to Germany on the Kaiser Wilhelm II., on June 2, and will not return until late fall. George E. M. Stumpp, whose portrait appears in this column was brought up from boyhood in the florist business. He developed a rare taste and originality in the arrangement of flowers and is at all times ready with new ideas in decorative effect. Visitors to the New York spring flower show will recall the rich arrangement there shown, all the handiwork of this versatile young man. He is a worthy successor to his father and can be depended upon to uphold the prestige of the name.

PHILADELPHIA NOTES.

Most of the stores here close about noon on Memorial Day except in the outlying district where there is plant and wreath business to be done.

Mr. Gracey reports that things are progressing favorably for the Florists' Club outing. The date will be June 16th, instead of the 10th, as at first intended.

The attraction at the next meeting of the Florists' Club is expected to be P. D. Barnhart, editor of the "Pacific Garden," California, who arrived in this city on the 26th. He will speak informally on things Pacific.

Visitors: Mr. Barnhart, editor of "The Pacific Garden," Los Angeles, Cal.; Jno. W. Coy, representing Chas. Sharpe & Co., Steaford, England; F. Apt, The Hammond Co., Richmond, Va.; Will Rehder, Wilmington, N. C.; William F. and Adolphus Gude, Washington, D. C.

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WRITE FOR HIM

H. BAYERSDORFER & CO., 1129 Arch Street **PHILADELPHIA, - PA.**

BOSTON NOTES.

One hundred and twenty varieties of lilacs are blooming at the Arnold Arboretum.

C. B. Johnson has recently added another big house to his carnation establishment at Woburn. He proposes to hold over a house of carnations for a second season.

McAlpine & McDonald, the most recent addition to the Boston wholesale establishments, seem to have "caught on" from the start and are doing a fine local and shipping trade.

Progress in planting the Boston Convention Garden is very rapid now. W. A. Manda has taken the entire section marked D on the layout and will make a record exhibit of hardy and tender garden material.

Among the plants which suffered severely in the recent winter are the Moutan peonies. Charles Sander, gardener at Holm Lea, states that he lost no less than 400 of them. Climbing roses were killed back almost to the ground and outright in some places, we understand.

Frank Edgar is high liner on candytuft for Memorial Day week. We have never seen a finer showing of splendid blooms of this useful bouquet flower. Stocks are also a main crop for this occasion. Mr. Edgar bought and grew the Zvolanek novelties in winter-flowering Spencer peas, at $128.00 a pound for the seed and has now a good lot of seed ripening up, which appears to be a pretty profitable crop.

North Beverly has a record for good carnations that reaches far beyond the confines of Boston as some of the carnation exhibitors in other centres who have run up against A. A. Pembroke's flowers in the exhibitions realize. Commodore, handsome flower as it is, has proved a poor winter grower here, more's the pity. Benora is unbeatable in its class, and Rosette has won out as a good one. Thirty-two thousand plants is the capacity of Pembroke's big 60x450 house.

Another crack carnation grower, just next door to Pembroke's, is Chas. E. Caldwell. White Wonder and Pink Delight are his long suit. Having been brought up in the truck business Mr. Caldwell knows the game of rotation crops and the wastefulness of empty houses, so tomatoes follow carnations in the cutting house and cucumbers and lettuce have their alternate innings. Tons of cucumbers are now hanging on the vines which were planted only two months ago.

NEWS NOTES.

Dayton, O.—The firm of Peter Jergens' Sons have dissolved partnership.

Fort Wayne, Ind.—W. J. & M. S. Vesey have purchased a 58 acre tract of land on Huntington road, and plan to build thereon a range of 400,000 ft. of glass.

Baltimore, Md.—J. George Sturgeon, for the past eighteen years well known to the trade in Philadelphia, has opened up a wholesale brokerage business in seeds, plants and bulbs.
four and a half acres and Mr. Millang intends to use the ground as a nursery for his Flushing store. He will build several greenhouses and have them ready for fall planting.

Kingston, N. Y.—A law case of Grace Silverman against Anders H. Anderson resulted in a jury verdict of $750 for Mrs. Silverman. Mrs. Silverman had sold her greenhouses and stock to Anderson and afterwards remained in his employ and the altercation, which is said to have been a very lively scrimmage, was the result of some misunderstanding as to compensation.

John Tiplady, well known as a leading private gardener at Lake Forest, Ill., has graduated into the commercial class, in the Chicago Feed and Fertilizer Co. at 810 Exchange avenue, Chicago.

THE "FOUR-HUNDRED" PLAY FLORIST.

From a horticultural or trade news point of view the pleasant pastime of the society ladies in fashionable Rittenhouse Square, Philadelphia, opening on the 20th inst., may be of small interest outside of local circles. But it marks an interesting departure of the idle rich in providing entertainment for themselves—and certainly a more wholesome one than the tango, or the dress parade. The affair was a great "go" and got reams of pictures and publicity from the local press. Most of the local trade was laid under contribution for cash, labor, or merchandise—retail, wholesale, and growers. And, of course, much of the supplies came from the private estates of suburbanites, and the gardeners of these were on hand to help the good work along. In an indirect way the affair, we believe, will help the fine idea of John Burton: "Spreading a love of flowers among the people." We cannot have too much of that. We have not nearly enough of it now. The masses are always prone—the world over—to ape the educated, refined and wealthy, and, as we have said, this "society" function will really tend in the long run to a good end which may have been entirely lacking in the people who promoted the affair. The receipts were for two hospitals and the Rittenhouse Improvement, supposedly one-third for each. But whatever the guiding motive—show or fun—it will all redound to the good of horticulture in the end.

Flushing, N. Y.—The old home of James A. Gray on Whitestone avenue, has been purchased by August Millang for $10,000. The house is on a plot of

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GREEN LEUCOTHOES, LONG, 1000, $6.50
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AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI May 25			CHICAGO May 25			BUFFALO May 25			PITTSBURG May 25		
Am. Beauty, Special	20.00	to	25.00	25.00	to	35.00	25.00	to	30.00	20.00	to	25.00
" " Fancy and Extra	12.50	to	15.00	20.00	to	25.00	15.00	to	20.00	12.00	to	15.00
" " No. 1	8.00	to	10.00	10.00	to	15.00	8.00	to	15.00	6.00	to	10.00
Killarney, Extra	6.00	to	8.00	5.00	to	6.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	3.00	to	5.00	2.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	8.00	5.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " Ordinary	3.00	to	5.00	2.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Maryland, Ward, Taft, Sunburst, Ex.	6.00	to	8.00	5.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " " " Ordinary	3.00	to	5.00	3.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	3.00	to	4.00	2.00	to	3.00	3.00	to	4.00	.....	to	3.00
" Ordinary	2.00	to	3.00	1.00	to	2.00	2.00	to	3.00	.....	to	2.00
Cattleyas	.....	to	50.00	50.00	to	75.00	40.00	to	50.00	25.00	to	40.00
Lilies, Longiflorum	8.00	to	12.00	8.00	to	10.00	6.00	to	10.00	6.00	to	8.00
Callas	8.00	to	10.00	6.00	to	8.00	6.00	to	10.00	.....	to	6.00
Lily of the Valley	.....	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Wallflower	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Snapdragon	3.00	to	6.00	5.00	to	10.00	4.00	to	7.00	4.00	to	8.00
Daffodils	1.00	to	2.00	.....	to	.....	1.00	to	2.00	.....	to	.....
Tulips	2.00	to	3.00	.....	to	.....	1.00	to	2.00	2.00	to	4.00
Pansies	.75	to	1.00	.50	to	1.00	.30	to	.50	.....	to	.50
Mignonette	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00	2.00	to	4.00
Daises, white and yellow	.35	to	.75	1.00	to	1.25	1.00	to	1.50	1.00	to	3.00
Sweet Peas	35	to	.75	.40	to	1.50	.50	to	1.00	.50	to	1.00
Lilacs, per bunch	.25	to	.4	.25	to	.50	.....	to	.....	.....	to	.....
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	1.00	to	1.25	.50	to	1.25	.....	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	40.00	to	60.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	20.00	to	25.00	35.00	to	50.00	35.00	to	50.00	40.00	to	50.00

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MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON

Never in the memory of the oldest followers of the flower market has there been such a huge descent of flowers of all descriptions on this market for Memorial Day. At present the wholesale marts are buried under the accumulation. Business is as good as ever for this occasion, but it makes but little impression on the heaps of stocks, roses, sweet peas, lilies, etc., all of which are in unprecedented congestion as well as badly enervated by the heat of the past few days. Carnations alone show any indication of stiffening price and then only in the case of fresh, crisp goods. There are tens of thousands of carnations, but only a few of them will command any extra figure. As usual the colored varieties have the best chance in this respect. Astilbe, which has usually been a big factor at Memorial Day is here in very small quantity and does not appear to have been grown to the extent of past years. The shipping trade is seriously handicapped by the dilapidated condition in which goods are received on account of the sweltering weather, but shippers are doing their best under the circumstances and as cooler temperatures are promised, perhaps the situation may improve yet. Peonies are in from Pennsylvania and bring all the way from $4 to $8 per 100.

CHICAGO

Memorial Day situation is unusual. The cut of all kinds of flowers has been larger for many days than could be worked off. The high temperature which prevails and the strong southwest winds from off the prairies takes the life out of much of the stock. Nothing can be held back and next to nothing can be sold. Ice boxes are filled and counters likewise and buyers have disappeared to wait until later in the week. Cooler weather is promised and with it better stock and better trade is looked for. All reports are to the effect that the orders now on the books will average well with other years. The only scarcity appears to be in long American Beauties, which are never in demand for this day. There are plenty of peonies and the prices range from two to six and occasionally eight cents. Sweet peas and carnations are among the worst sufferers, any amount of them having to go to the barrels, many arriving in unfit condition. There is good demand for green and every kind brings a very good price. Outdoor stock is fast deteriorating in the hot winds. At this writing, May 26, florists are kept guessing as to the big day at the end of the week.

CINCINNATI

The supply for Decoration Day will be very large. Besides the usual output of the various growers there will be large cuts of outdoor roses and other flowers from the gardens. Of course these last will come into direct competition with those from the professional florists and may interfere with the demand for stock generally. Everything seasonable in a floral way is in a good supply. Throughout the past fortnight the weather has been very favorable and has caused a general increase in the average size of the daily cuts. The demand has at times been very good while at others it was very poor. During this period it has never been large enough at any one time to cause a general clearance of the flowers in the market. The peony cut is large and should be able to take care of all demands upon it. The same is true of roses, lilies and carnations. Quite a large number of double Narcissus poeticus and jessamines are expected for the Decoration Day business. Lily of the valley is fine and in good supply but has only a fair market. Sweet peas are better than they were but

(Continued on page xi)



VALLEY

For the June weddings. A large supply of the famous P/M quality. Stock was never better.

Special .....$4.00 per 100
Extra ..... 3.00 " "

BEAUTIES

	Doz.	100
Special	$3.00	$22.50
Fancy	2.50	20.00
Extra	2.00	15.00
First	1.50	10.00

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 28	ST. LOUIS May 25	PHILA. May 25
Roses			
Am. Beauty, Special	15.00 to 20.00	20.00 to 25.00	17.50 to 25.00
" " Fancy and Extra	10.00 to 15.00	15.00 to 18.00	10.00 to 15.00
" " No. 1	4.00 to 8.00	8.00 to 10.00	4.00 to 8.00
Killarney, Extra	4.00 to 6.00	4.00 to 6.00	5.00 to 8.00
" Ordinary	1.00 to 3.00	1.00 to 3.00	1.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 6.00	5.00 to 6.00	5.00 to 8.00
" " Ordinary	1.00 to 3.00	1.00 to 4.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 8.00	5.00 to 6.00	0.00 to 10.00
" " " " Ordinary	1.00 to 2.00	1.00 to 4.00	2.00 to 5.00
Russell, Shawyer	2.00 to 15.00	..... to	4.00 to 10.00
Carnations, Fancy	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 2.00	1.00 to 1.50	1.00 to 1.50
Cattleyas	35.00 to 40.00	40.00 to 50.00	30.00 to 50.00
Lilies, Longiflorum	5.00 to 6.00	6.00 to 8.00	3.00 to 6.00
Callas	4.00 to 8.00	5.00 to 6.00	5.00 to 8.00
Lily of the Valley	1.00 to 2.00	1.00 to 4.00	1.00 to 4.00
Wallflower	1.00 to 2.00	..... to	..... to .....
Snapdragon	1.00 to 4.00	2.00 to 4.00	2.00 to 8.00
Daffodils	..... to	..... to	..... to .....
Tulips	.50 to 1.00	1.00 to 2.00	..... to .....
Pansies	.10 to .25	..... to	..... to .....
Mignonette	1.00 to 3.00	4.00 to 5.00	2.00 to 3.00
Dasies, white and yellow	1.00 to 2.00	1.00 to 2.00	.50 to 1.00
Sweet Peas	.20 to .35	.25 to .40	..... to .....
Lilacs, per bunch	..... to	..... to	..... to .....
Gardenias	12.00 to 20.00	..... to	4.00 to 15.00
Adiantum	.75 to 1.00	1.00 to 1.25	..... to 1.00
Smilax	12.00 to 15.00	12.00 to 15.00	20.00 to 25.00
Asparagus Plumosus, Strings (100)	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00
" " & Spren. (100 Bchs.)	10.00 to 35.00	15.00 to 25.00	25.00 to 50.00

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ROSES AND CARNATIONS	Last Half of Week ending May 23 1914	First Half of Week beginning May 25 1914
American Beauty, Special	20.00 to 30.00	20.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 20.00
" " No. 1	3.00 to 8.00	5.00 to 8.00
Killarney, Extra	4.00 to 6.00	4.00 to 6.00
" Ordinary	1.00 to 4.00	1.00 to 4.00
Richmond, Hillingdon, Extra	4.00 to 8.00	4.00 to 6.00
" " Ordinary	1.00 to 4.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 8.00	4.00 to 8.00
" " " " Ordinary	1.00 to 3.00	1.00 to 4.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 4.00
" Ordinary	1.00 to 2.00	1.00 to 2.00

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Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 813)

move rather slowly. The antirrhinums that come in are not as large and fine as they were. Orchids are in good supply. Other offerings include iris, gladioli, corn flowers, daisies and feverfew. Business in new ferns is very good.

NEW YORK The deluge of flowers which overwhelmed this market last week has been heavily reinforced this week by the action of the sudden high temperatures and the market is completely stagnated. In addition to the usual standard varieties there are peonies in great heaps, stocks ditto, lilacs in barrel lots, etc., etc., but whether outdoor or indoor product, nobody wants to buy. Cattleya Mossiæ and gigas of superb quality are quoted as low as $15.00 to $35.00 but they stay in wholesalers' possession. Roses, carnations, lily of the valley, sweet peas and lilies are in big accumulation on all sides, and there is not much confidence in the outlook for a Memorial Day unloading. There may be a famine later on, though.

PHILADELPHIA There is little of change to report on last week's market. Material of all kinds is arriving in immense quantity with demand anything but brisk. This being Memorial week promises better things, but it is too early yet to prophecy. This particular holiday is more largely a bedding plant and wreath festival than a cutflower occasion, so it is needless to look for any boom in cut flowers, especially with the market overstocked as it is. Of course, there will be the usual demand for decorative material such as peonies, for suburban and distant points. The only thing the market is asking a better price for is the carnation. Everything else is offered at normal. And it is open to question if much more can be got for carnations. There seems to be a larger supply of these this year than in other seasons. In greens, dagger ferns and smilax seem to be the only items on the scarce side. The new crop dagger ferns are arriving slower than usual, probably on account of the late season.

ST. LOUIS The local market is in about the same condition as reported in the last issue, everything plentiful and the demand for large lots slow. The retail business is nothing to boast of. The present week should mark a good business as two great events will take place—the Pageant and Decoration Day. Stock of all kinds has been coming in heavy and prices are low. The offerings comprise everything that is accustomed to be in bloom outdoors or indoors at this date. Fancy ferns are scarce but in other greens everything is plenty.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 23 1914	First Half of Week beginning May 25 1914
Cattleyas	15.00 to 25.00	10.00 to 35.00
Lilies, Longiflorum	5.00 to 6.00	4.00 to 5.00
Callas	5.00 to 6.00	4.00 to 8.00
Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Wallflower	..... to	..... to .....
Snapdragon	2.00 to 5.00	3.00 to 5.00
Daffodils	1.00 to 2.00	..... to .....
Tulips	1.00 to 2.00	1.00 to 3.00
Pansies	... to	..... to .....
Mignonette	1.00 to 3.00	1.00 to 3.00
Daises, white and yellow	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	6.00 to 10.00	2.00 to 6.00
Lilacs (per bunch)	.. ... to .25	..... to .20
Gardenias	10.00 to 25.00	15.00 to 25.00
Adiantum	.50 to .75	.35 to .75
Smilax	10.00 to 16.00	10.00 to 16.00
Asparagus Plumosus, strings (per 100)	35.00 to 50.00	35.00 to 50.00
" " & Sprn (100 bunches)	15.00 to 35.00	20.00 to 35.00

WASHINGTON There are more flowers of all kinds than the market can readily handle. During the past week business in the retail stores has been much better than for some time, as this is the graduation season in the many private schools. From the outlook of the early part of the present week, there will be plenty of flowers for the Decoration Day business. The supply of peonies has greatly increased. Roses are very plentiful and fair for this season. Carnations are in good supply and more gardenias are appearing on the market than can be utilized. There is but a very moderate demand for orchids and the supply is limited. Gladioli are somewhat more plentiful and of better quality, and the price has decreased slightly. Good America gladioli can be had at from $6 to $8. Daisies are in but little demand and the bulk of the retail sales are being made by the street men.

Bar Harbor, Me.—Edward Kirk, the well-known manager of the George W. Vanderbilt estate, has purchased the Northeast Harbor branch of the Mount Desert nurseries, consisting of three acres of land, with greenhouses, office building, outbuildings, implements, tools, etc. The greenhouses are full of bedding plants of many varieties. The business has been established at Northeast Harbor 15 years as a branch of the Bar Harbor concern. Mr. Kirk will carry on a general nursery business as well as doing outside contract work. Mr. Kirk has been manager of the Vanderbilt property here for the past 23 years.

VISITORS' REGISTER.

Boston—D. Cameron, representing F. Sander & Sons, New York; D. F. Roy, Marion, Mass.

New York.—Ed. Jenkins, Lenox, Mass.; Will Rehder and Mrs. Rehder, Wilmington, N. C.; Peter Murray, Manomet, Mass.

Chicago: Miss Kate Harris, Memphis, Tenn.; Mrs. E. H. Hitchcock, Glenville, Mich.; Mrs. Woodcock, Spencer, Iowa; Mr. Crouch, Chattanooga, Tenn.; L. Chrisman, of Iowa Floral Co., Des Moines, Iowa; Robt. Zetlitz, Lima, Ohio.

Philadelphia—P. D. Barnhart, editor of "The Pacific Garden," Los Angeles, Cal.; Jno. W. Coy, representing Chas. Sharpe & Co., Steaford, England; F. Apt, The Hammond Co., Richmond, Va.; Will Rehder, Wilmington, N. C.; William F. and Adolphus Gude, Washington, D. C.

FIRE.

The entire settlement known as Cummingsville, two miles from Woburn, Mass., was threatened with destruction just after midnight this morning by a fire that wiped out a large barn and three greenhouses and damaged the house of Everett C. Cummings and of William Connolly, an employee. Mr. Cummings declared that he is certain the fire was incendiary, as there was nothing in the barn, where it first broke out, that could have started it. For an hour the whole city of Woburn was lighted up by the burning buildings. The loss is estimated at $12,000.

Determined to check the ravages of the tent caterpillar, Calvin H. Huson, N. Y. state commissioner of agriculture, at Albany, has issued a formal order requiring all owners or persons in possession of plants infested by tent caterpillars to destroy the nests before June 1, 1914.

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Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

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Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

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Horticultural Auctioneers.
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Aucuba japonica, bushy plants. 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Otto Heinecken, New York City.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York.
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BAY TREES—Standard and Pyramids. All sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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Breck-Robinson Nurseries, Lexington, Mass.
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Alonzo J. Bryan, Washington, N. J.
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H. Hansen, Malden, Mass.
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J. B. Shurtleff & Son, Revere, Mass.

Geraniums: Nutt, Ricard, Poitevine. Viaud, Jaulin, La Favorite; Cannas; Aus- 3½ in., $6.00 per 100. Blue Ageratum, Howard's Star Petunias, double Alyssum, white Marguerites, German Ivy, Salvia Bonfire, Coleus Verschaffelttii, G. Bedder, Queen Victoria, Firebrand, 3 in., $5.00 per 100. Achyranthes Lindenii, Coleus (4 colors), Dusty Miller, Alternanthera (red, yellow), 2½ in., $3.00 per 100. Dracaena indivisa, extra heavy, 6 in., $40.00 per 100. Vinca variegata, 3½ in., $8.00 per 100. Cash. F. SOKOL, Worcester, Mass.

BEGONIAS

Storrs & Harrison Co., Painesville, O.
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BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

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Kroeschell Bros. Co., Chicago.
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Lord & Burnham Co., New York City.
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Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

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BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

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Ralph M. Ward & Co., New York City.
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John Lewis Childs, Flowerfield, L. I., N. Y.
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Lilium Giganteum.
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August Rolker & Sons, New York City.
Holland and Japan Bulbs.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple. 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Elmer D. Smith & Co., Adrian, Mich.
Chrysanthemum Novelties for 1914.
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Chas. H. Totty, Madison, N. J.
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Wood Bros., Fishkill, N. Y.
Chrysanthemums Rooted Cuttings.
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Strong Rooted Chrysanthemum Cuttings, 250 of one variety at 1000 rate. Opah, Pacific Supreme, 1¼c., $10 per 1000; President Taft, Wm. Duckham, Golden Age, Yellow Bonnaffon, Robt. Halliday, October Frost, Winnie Baily, 1½c., $12.50 per 1000; White Bonnaffon, Mad. J. Nonin, Maud Dean, Early Snow, Alice Byron, Dr. Enguehard, Black Hawk, Culling fordii, 2c., $15 per 1000; Chrysolora, 2½c., $20 per 1000; Golden Eagle, Golden Wedding, 3c., $25 per 1000. About twenty other good varieties. Terms cash. JOHN B. TANGUY, West Grove, Pa.

Chrysanthemums—50,000 rooted cuttings and plants from soil; leading market sorts. Write for prices. WM. SWAYNE, Kennett Square, Pa.

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20th Century Plant Food Co., Beverly, Mass.
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Thomas Roland, Nahant, Mass.
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Cactus, Dahlia. Golden Gate.
Hicksville, L. I., N. Y.

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Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

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Dahlias—best cut-flower varieties and novelties. Send your list of wants to the largest Dahlia grower in the world. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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Geranium S. A. Nutt in bud and bloom, 3½ in. pots; good plants, 6c. Cash please. CHAS. H. GREEN, Spencer, Mass.

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Plantlife.
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Imp Soap Spray.
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IRIS
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IRRIGATION SPRINKLER
J. P. Campbell, Jacksonville, Fla.

IVY
J. Wm. Colflesh's Sons, Philadelphia, Pa.

German Ivy, 2 to 2½ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

English Ivy, Rooted Cuttings from soil, 75c. per 100; 6 to 12 in. long, $1.25, prepaid; 2½ in., 12 to 18 in., $2.50. CHAS. FROST, Kenilworth, N. J.

KENTIAS
Joseph Heacock Co., Wyncote, Pa.
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KIL-WORM AND KIL-WEED POISON
Lemon Oil Co., Dept. J., Baltimore, Md.
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In writing to Advertisers kindly mention Horticulture

LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

LEMON OIL

Lemon Oil Co., Baltimore, Md.

LILY BULBS

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Otto Heinecken, New York City.
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PANSY PLANTS

500,000 field-grown Pansies in bud and bloom; grown from seed of my own raising and is the result of twenty years' careful breeding. $1.25 per 100; $10.00 per 1000. Cash, please. LEONARD COUSINS, JR., Concord Jct., Mass.

PEONIES.

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHLOX

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Henry A. Dreer, Inc., Philadelphia, Pa.
Headquarters for Hardy Phlox.
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PHOENIX

Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIPE AND FITTINGS

Kroeschell Bros. Co., Chicago.
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PLANT TRELLISES AND STAKES

Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

PLANT TUBS

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"Riverton Special."
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A. A. MacDonald, Somerville, N. Y.
American Beauty Plants.

Anton Schultheis, College Point, L. I., N. Y.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS

Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

SEED GROWERS

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Boston, Mass., and London, England.
"Seeds with a Lineage."
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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Fottler, Fiske & Rawson Co., Boston, Mass.

SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPRINKLING, IRRIGATING AND WATER SUPPLY OUTFITS

Chas. J. Jager & Co., Boston, Mass.

STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
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N. F. McCarthy & Co., Boston, Mass.
Cemetery Vases.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties: 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

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In writing to Advertisers kindly mention Horticulture

FOR "POT LUCK" TRY US...

HEWS STANDARD POTS

POT MAKERS FOR 140 YEARS — WORLDS LARGEST MANUFACTURERS

WRITE FOR CATALOGUE AND DISCOUNTS

Pearson Street
LONG ISLAND CITY, N. Y.

A. H. HEWS & CO., Inc.

Main Office and Factories
CAMBRIDGE, MASS.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

POISON KIL-WORM POISON

Destroys Worms, Ants, etc., infesting Golf, Cricket Grounds, Parks and Lawns. Sure death to Snails. Does not injure Grass; causes the insects to come to the surface to die. (Must not come in contact with fine plants.)

One gallon Kil-Worm makes 50 gallons liquid when mixed with water.

1 qt., $1.00; ½ gal., $1.75; 1 gal., $3.00; 5 gals., $13.50.

POISON KIL-WEED POISON

A scientific Weed Destroyer—free from odor. An unsurpassed preparation for the removal of Grass, Weeds, Vines and Bushes from paths, etc. Saves expense of several men; can be applied with an ordinary sprinkling can.

One gallon Kil-Weed makes 30 to 35 gallons liquid when mixed with water.

1 qt., 35c.; ½ gal., 60c.; 1 gal., $1.00; 5 gals., $4.00; 10 gals., $7.50; 1 barrel, per gal., 65c.

LEMON OIL COMPANY, Dept. k
420 W. Lexington St., Baltimore, Md.

Directions on every pkg.; write for circular.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

HELP WANTED

WANTED—A good pot plant grower to work under foreman. Reply, stating age, experience and wages expected, to THOMAS ROLAND, Nahant, Mass.

SITUATIONS WANTED

DO YOU NEED FARM HELP?

We have many able-bodied young men, both with and without farming experience, who wish to work on farms. If you need a good, intelligent, sober man, write for an order blank. Ours is a philanthropic organization and we make no charge to employer or employee. Our object is to encourage farming among Jews.

THE JEWISH AGRICULTURAL SOCIETY,
174 Second Avenue, New York City.

SITUATION WANTED—Intelligent young man with some college training in Floriculture desires position as assistant gardener with intelligent employer. Address C. G., care HORTICULTURE

FOR SALE

FOR SALE

Lot of land, 248 feet by 106 feet, with 3 iron construction green houses 175 x 20 feet each, potting shed, some frames in fine condition. Located on three streets, trolley passing the front, in a town of 40,000 inhabitants, close to New York. Excellent place suitable either for local trade where all the products could be readily sold or for wholesale shipping to New York or Philadelphia. Low price, terms to suit purchaser. Address Chance, care HORTICULTURE.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

PEIRCE PAPER FLOWER POT

Replaces clay pot for transferring and delivery of plants without damage.

Under ordinary growing conditions will last two months or more in a greenhouse, making them available for growing many small plants.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@	$6.00	500	4	in. @ $4.50
1500	2	"	"	4.88	456	4½	" " 5.24
1500	2¼	"	"	5.25	320	5	" " 4.51
1500	2½	"	"	6.00	210	5½	" " 3.78
1000	3	"	"	5.00	144	6	" " 3.16
800	3½	"	"	5.80	120	7	" " 4.20
					60	8	" " 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY — Long Distance and TradeExport

HORTICULTURE:

Please discontinue my advertisement for Greenhouse Foreman. Have engaged a man from Perrysburg, Ohio, through advt. in HORTICULTURE of May 16th. HORTICULTURE finds them all right. Have received sixteen applications.

Yours very truly,
C. W. KNIGHT.

Westbrook Gardens, Oakdale, L. I., N. Y.,

"Here is Your Answer;" in WEBSTER'S NEW INTERNATIONAL

-THE MERRIAM WEBSTER

Even as you read this publication you likely question the meaning of some *new* word. A friend asks: "What makes mortar harden?" You seek the location of *Loch Katrine* or the pronunciation of *jujutsu*. What is *white coal?* This NEW CREATION answers all kinds of questions in Language, History, Biography, Fiction, Foreign Words, Trades, Arts and Sciences, *with final authority.*

400,000 Words and Phrases Defined.
6000 Illustrations.
Cost $400,000.
2700 Pages.

The only dictionary with the *new divided page*,— characterized as "A Stroke of Genius."

Write for specimen pages, illustrations, etc.

Mention this publication and receive FREE a set of pocket maps.



G. & C. MERRIAM CO., Springfield, Mass.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D. C.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being worked right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

IMP.

SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses, Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

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PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

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Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

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Asheville, N. C.—D. A. Lashley, Idlewild Greenhouses, one house.

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Newport, R. I.—W. E. Glynn, Bellevue avenue, house and potting shed.

Washington, D. C.—James Parmelee, Lowell and 13th streets, one house.

Farmingdale, N. Y.—Kramer Bros., who recently sold out their retail greenhouse property and business here, have bought a 40-acre lot and will build a new range on it for wholesale growing.

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Far Rockaway, N. Y.—Seaman, Florist, capital stock, $10,000. Incorporators, Harry Seaman, F. S. Castle, H. A. Castle.

Milton, Del.—Robbins-White Company, seeds and grain. Incorporators, John M. Robbins, Oscar S. Betts, M. Wallace White.

Columbus, O.—West Park Greenhouse Co., capital stock $15,000. Incorporators, Peter, Fred and Matilda Barthelman, Harlow, Amelia and Emily Landphalt.

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for GREENHOUSE and HOT BED SASHES. Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.
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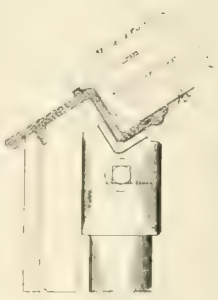
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are practical, first, last and all the time. Every detail is the result of careful study.
Sunshine makes things grow and a King simply captures every ray of sunlight.
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King Ideal Boilers and King Air Valves are worth investigating.
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Greenhouse Materials FURNISHED AND ERECTED
IRON or WOOD SASH BARS
In all lengths up to 32 feet.
Milled to any detail furnished or will furnish details and cut materials ready for erection.
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3275 West 31st Street
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IF YOU ONLY KNEW what a good eave the METROPOLITAN PATENTED is, you would use no other. It is made of cast iron and will not rust. That part of your greenhouse which in other constructions is the weakest becomes the strongest. Not this alone, it is ice-clearing and carries all the water of condensation from the inside, and it is so constructed that almost the entire end of the bar is exposed to the air, thereby preventing decay. Only one screw, about two inches from the end, is all that is necessary to secure the bars. For side stationary glass, wood headers are absolutely unnecessary, thereby causing no shade. Zinc glass stops are not necessary—the eave is made with a lug to prevent the glass from slipping. Let your next house be built with a Metropolitan Patented Iron Wall Construction. You will never regret it. Our price and service are right.

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Hotbed Sash, Glass, etc.
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AFTER many years of experience in greenhouse work with Lord & Burnham Company, in the glazing and painting department, I am convinced that what is needed most is a good shading, and I am pleased to tell you that I have the real thing which you are all looking for.
My shading is beneficial to the painted wood, as it contains nothing but pure linseed oil; it is also beneficial to the glass. You will be surprised by the brilliancy left in the glass when the shading is removed. It is very easily applied by spray or a soft brush; I prefer the brush.
Made up in gallon cans. Colors; light green, blue and pure white. If you will give it a fair trial I am sure you will agree that it has proven its worth.
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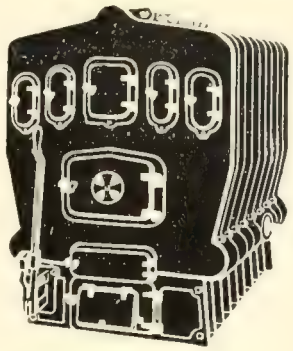
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Steel tubular boilers require expensive chimneys. The foundation work, building of a fire box or bricking-in is also a big expense. The moving of a tubular boiler from the cars to your cellar is an engineering problem of no small size. Then there is the frequent expense of retubing that's always hanging over your head.

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We will advise you frankly which you should have and sell you either kind you want. Write us.

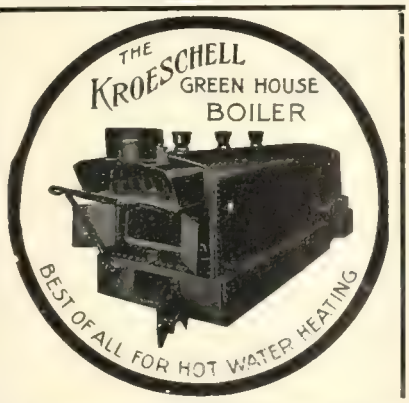


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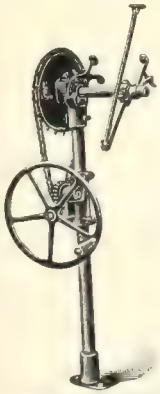
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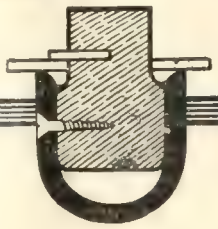
AN ERROR CORRECTED

IN our advertisements of last week concerning the greenhouses, operated by C. C. Trepel, on top of Bloomingdale Bros. store, New York; it was stated that Mr. Trepel also ran flower stores at Gimbel Bros., New York, and Abraham & Straus, Brooklyn.

It seems that the Abraham & Straus store is not, and never was, operated by Mr. Trepel, and we hasten to correct the error, and state that Mr. Trepel does, however, operate the flower store at Frederick Loeser & Company's, Brooklyn.

Lord & Burnham Co.

Why the U-Bar

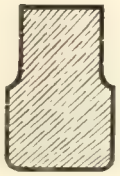


Look at the wheels of a bicycle—see what slender little, wire-like spokes they have—yet what strong, sturdy wheels they are. Surely no one would think of going back to the clumsy, old wooden spoked wheel.

By the same token did you ever stop to think how like the bicycle wheel, U-Bar greenhouses are?

No heavy wooden roof bars or large iron framing members—but in their place a complete, all steel frame of U-Bars as light and strong in proportion as are the bicycle spokes.

The cypress core bar is steeped in a chemical preservative before it is placed in the U-Bar.



THE CORE BAR
It is made of Cypress steeped in a chemical preservative.

The galvanized steel U-Bar completely protects the core bar from the inside moisture of the house.

The drip does not drip. It follows down the bottom of the U-Bar, to the purlin lead-offs, or to the cast iron sill. No drip grooves to get stopped up.

Then there's the curved eave — everybody knows the U-Bar curved eave was the original curved eave. It is admitted to be the most practical and attractive of all curved eaves.

No reinforcements of the curved parts of the U-Bar are needed —no heavy iron members to break the view from the inside looking out; or show a heavy line from the outside, looking in.

There's only one U-Bar curved eave, and that's the eave **MADE WITH THE U-BAR.**



THE U-BAR
It is made of steel, heavily galvanized and then aluminum painted.

Others may look like it, but that's **THE ONLY WAY** they are like it. We tell you these things as a matter of protection to yourself. If you want the finest greenhouse sold today, for private estates, public institutions or florist show houses—you want the U-Bar. See to it that you get it.

U-BAR GREENHOUSES

PIERSON U-BAR CO

ONE MADISON AVE., NEW YORK

CANADIAN OFFICE, 10 PHILLIPS PLACE, MONTREAL

Vol. XIX
No. 23
JUNE 6,
1914

HORTICULTURE



Rhododendron (Azalea) Vaseyi

Published Every Saturday at 11 Hamilton Place, Boston, Mass.
Subscription, $1.00.

YOUNG ROSE STOCK

GRAFTED AND OWN ROOT.

Our Roses are famous all over America, and our young stock of Roses is in wide demand among those who wish to bench the finest, strongest, healthiest plants in the market. We never have had finer young stock than this season. We offer as follows:

GRAFTED STOCK.

	Per 100	Per 1000
Killarney, 2½-inch	$12.00	$100.00
White Killarney, 2½-inch	12.00	100.00
Milady, 2½-inch	12.00	100.00
Killarney Queen, 2½-inch	12.00	100.00
Mrs. Aaron Ward, 2½-inch	12.00	100.00
Mrs. Taft (Bulgarie or Antoine Rivoire), 2½-inch	12.00	100.00
Richmond, 2½-inch	12.00	100.00
Milady, 3½-inch	15.00	135.00
Mrs. Geo. Shawyer, 2½-inch	12.00	100.00
Killarney Brilliant, 2½-inch	30.00	.....
Mrs. Geo. Shawyer, 3½-inch	15.00	135.00
Mrs. Taft (Bulgarie), 3½-inch	15.00	135.00
Killarney Queen, 3½-inch	15.00	135.00

OWN ROOT STOCK.

Killarney, 2½-inch	6.00	55.00
Mrs. Taft (Bulgarie), 2½-inch	6.00	55.00
Mrs. Aaron Ward, 2½-inch	6.00	55.00
Milady, 2½-inch	6.00	55.00
Sunburst, 2½-inch	7.50	70.00
Killarney, 3½-inch	8.50	75.00
Mrs. Ward, 3½-inch	8.50	75.00
Mrs. Geo. Shawyer, 3½-inch	8.50	75.00
Milady, 3½-inch	8.50	75.00
Richmond, 3½-inch	7.50	65.00
American Beauty, 2-inch	7.50	65.00

2,500 or more at $62.50 per 1000.

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ROOTED CUTTINGS, 2½-INCH.

SMITH'S ADVANCE AND CHRYSOLORA

We do an immense business in Rooted Cuttings and 2½-inch pot Mums because the stock is strong and healthy and because our list of varieties includes only the bread-winners—the tried and true varieties. We list only the varieties that have proved money-makers for us in our cut flower business.

Rooted Cuttings.....$2.50 per 100; $22.00 per 1000
2½-inch pots ..... 3.00 per 100; 27.00 per 1000

WHITE—Smith's Advance, October Frost, Lynnwood Hall, Timothy Eaton, W. H. Chadwick, Elsie Papworth.

YELLOW—Chrysolora, Crocus, Bonnaffon.

PINK—McNiece, Enguehard, Maud Dean, R. E. Leoben, Wells' Late Pink. Per 100

Alice Salomon, white, rooted cuttings.....$ 7.00
Chieftain, pink, rooted cuttings..... 12.00
Golden Salomon, yellow, rooted cuttings..... 20.00

POMPONS.

Rooted cuttings .....$3.00 per 100
2½-inch pots ..... 4.00 per 100

WHITE—Waco, Kemmitt.
YELLOW—Krul, Skibo, Madge, Baby, Big Baby, Quinola.
BRONZE—Mme. Laporte, Mrs. Beu.

NEW SINGLES.

MENSA—This is the splendid white that attracted so much attention at the Fall Flower Shows, and is considered the best single white on the market. Rooted Cuttings, $8.00 per 100.

PAULINE—Dark single bronze.. This variety sported with us, and is easily the best single bronze for commercial use. Rooted Cuttings, $8.00 per 100.

PARKINSON, single yellow.
Dark Single Pink.

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Box 127 MORTON GROVE, ILL.

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EXTRA LARGE PLANTS IN TUBS AND BARRELS
FOR SUMMER FLOWERING

We make a specialty of hydrangeas, and have a very large stock of plants which have been kept backward and which are now just beginning to set buds. They are in fine shape for shipment, and will bloom from June to August. Plants are heavily budded, and are exceptionally good value.

We have always made a specialty of large hydrangeas for summer-blooming, and we never had such a fine stock as we have at this time. We have a very large stock, especially of the plants in barrels, and can supply carload lots.

Fine plants in tubs.....$2.00 and $3.00 each.
Extra fine specimens in half-barrels.....$5.00, $7.50 and $10.00 each.

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YOUNG PLANTS Princess of Wales SIM QUALITY

$2.00 per 100. $15.00 per 1000. 500 at 1000 Rate.

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HYDRANGEA CUTTINGS, very strong and well rooted, in 2½-inch pots; Avalanche, Bouquet Rose, $6.00 per 100; General de Vibraye, Souvenir de Chantard, Radiant, $8.00 per 100.

LILY OF THE VALLEY, cut, I can furnish you all year around. First-class, extra selected valley, $4.00 and $3.00 per 100.

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We have a half million in two-inch pots at **$2.00 per 100, $18.50 per 1000.**

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11 Warren St., New York, N. Y.

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Bedding Plants and Roses

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Outdoor Sweet Peas

Sweet peas will now need the hoe or cultivator at least every ten days. Over a large portion of the country the spring and early summer rainfall becomes deficient, so watering during dry weather becomes necessary as sweet pea revels in plenty of moisture at the roots. See that they are kept well up to the supports, for when they are allowed to fall over the flower stems become crooked. When the flowers begin to appear a good mulch of well rotted manure will be found of great benefit to them. If you doubt as to the real good which comes out of this, do a little experimenting and let part of a row go without any. When they begin to bloom keep all the flowers picked off so they will not form pods. This will keep them in flower longer. It is always better to pick the flowers early in the morning or late in the afternoon.

Palms

Air freely, now that the days are so warm, and keep plenty of moisture in the atmosphere. A couple of hosings overhead on clear days should also be given with a carefully directed pressure, which will not only help to keep the foliage clear of dirt, but also will assist materially in preventing the spread of scale. If there are large palms that need repotting this is an excellent time to do this work, as nearly all the palms and other decorative stock make a heavy growth during the summer and the more they are encouraged the better. If larger pots are not required remove some of the old soil from the roots and replace with a fresh compost of fibrous loam three parts, well rotted cow manure one part, and about a 5-inch pot of bone meal to a barrow load. If rains have washed off considerable of the shading applied to the glass some time ago it will be necessary to use some more whitening on the roof as many palms are quite easily scorched. Select some of the tougher leaved kinds and stand them outdoors.

Bay Trees

Bay trees that have not been potted for three or four years will need some attention now in the way of a shift or a top-dressing. Where they need repotting give them a good heavy soil three parts, well rotted cow manure one part, with good sprinkling of bone meal. See that the compost is well rammed all around the ball as they like the soil good and firm. For bays that do not need repotting it is a good plan to remove all the top soil down to the fine roots and renew with a rich compost. Place them where they will be handy for water as they should get a good syringing often. During the summer they will enjoy an application of liquid manure about every ten days. This treatment can be given to all pot or tub evergreens, such as English yews, aucubas, araucarias, laurels, hollies, etc.

Poinsettias

Poinsettias that were started growing about May 1st will now have sent out plenty of young growths, which root readily. Such as are rooted now will produce bracts a foot or more in diameter and be suitable either for benching or making up later into large pans. Poinsettias root at any time from spring until fall provided they are not allowed to wilt from sun or neglect of water. They must be shaded on all bright days and faithfully kept wet in the propagating sand. In very hot or bright weather, once a day may not be enough. Water the sand copiously twice a day. Don't be afraid. Another critical time is just after potting off from the propagating bed. For the two weeks there must be no neglect. Be as careful with shading and watering as you were while the cuttings were in the sand. After once making roots in the pots they endure the brightest sun and must have it.

Orchids

During their growing season a high degree of moisture must be maintained in the atmosphere of the house, the amount and frequency of the watering and sprinkling of the floors, etc., of the house being largely regulated by the weather. Ventilation must also be carefully regulated, avoiding cold draughts and sudden changes. Shading should be attended to but give all the light possible; this in nine cases out of ten, is overdone. This refers to all orchids. As the season advances the temperature in this department will require more air to be given, consequently more frequent damping with syringing overhead once or twice a day will be necessary; air should be left on during damp weather to prevent the young growths from rotting. The plants should be all sponged over to remove any thrips, scale or insects before the young growths appear. Varieties such as Cattleya Trianæ, Percivaliana and others, starting action in poor material, should be repotted. Cœlogyne cristata and its varieties will now have finished blooming and will soon start into new growth and root action. A free, cool atmosphere, with spraying overhead once or twice a day, and all the sun during winter is necessary to ensure good flowering plants of this very useful orchid for cutting purposes.

Spraying and Syringing

When we get warm summer weather that makes the thermometer register anywhere from 80 to 90 degrees in the shade, all such plants as carnations, chrysanthemums, palms, ferns, roses, etc., will be greatly helped by syringing. Do not let the houses have a dry atmosphere. Keep the paths damp at least three times a day.

Mr. Farrell's next notes will be on the following: Bouvardias; Newly Planted Chrysanthemums; Cyclamen; Outdoor Roses; Summer Treatment of Potted Roses; Sowing Late Annuals.

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Build up

While delighted to record commendable activity in local preliminary work for a successful convention in Boston we are moved to call general attention to the necessity of something more than efficient local preparations, a large attendance and a good time. If we are to arise fully to the occasion and its opportunity and if the convention is to go into history as the most successful and memorable event in the chronicles of horticultural development in America there are many serious matters that must be carefully discussed and acted upon now. The work of the S. A. F. at this epoch of its existence should be essentially constructive in character, and it should be the endeavor of the horticultural interests individually and collectively to so direct the forces of this great agency that it will contribute in the most effective manner to the building up of the horticultural and allied industries which are, beyond any question, still in their propagating bench in this counrty. So we hope that you will all come to Boston with something on your mind besides the vacation spirit—something that you feel needs to be done and that can be done for the general cause—and with something practical to impart as to how the needed forward step may be accomplished and the prosperity and happiness of your fellow-craftsmen promoted through the power of efficient organization. If, perchance the S. A. F. has not sized up in the past to what you think it should have done, forget it, for perhaps you misjudge it unfairly. Shakespeare said:

"The fault-finder—it is his nature's plague to spy into abuses; and oft his jealousy shapes faults that are not."

The present time is no time for picking flaws or overturning what has been done. When, in the future, we look back and record our estimate of the convention of 1914, its points of excellence will be computed not so much on what we captiously pulled down as on what we manfully built up.

An ominous manifestation

Did you hear anything drop about Memorial Day? Seems to us from what we observed in certain flower markets and what we learn in reports received from others that the antiquated idea of winter prices on flowers at the end of May has suffered a knockout blow—one which we hope will finish it for good. Of the various forms of business suicide which prey on the prosperity of the flower trade this is one of the most mischievous. Just one year ago we wrote editorially as follows in reference to the scareheads circulated in the daily papers regarding alleged prospects of a flower famine and high prices for Memorial Day material:

"Consider, you growers who rail against the sale of artificial flowers, how many metal wreaths were purchased as a result of these announcements flashed in the faces of 100,000 readers!"

Such warnings and entreaties we are well aware, have no more effect on "the system" than has the throwing of water on a duck's back. It takes bitter experience to drive home the truths they seek to convey. When we see the cemeteries strewn with thousands of dried and artificial wreaths while, for the entire week, wagon loads of natural flowers are rotting in wholesale markets, something is wrong from the standpoint of the flower grower. It is no exaggeration to say that thousands of dollars went into the pockets of the manufacturers of imitation material last week which might have been gathered in by the growers of fresh flowers if an aggressive rational policy had been established and the issue had been squarely met by those whose interests were most at stake. The problem is one of many angles and on the way it is finally solved depends much of the future well-being of the flower industry. The experience of Memorial Day is one angle. There are others.

CRATAEGUS AND ARONIA.

(Extracts from Bulletin No. 56, of The Arnold Arboretum.)

In the collection of Hawthorns (Crataegus) on the eastern slope of Peter's Hill there are now flowering or soon to flower six hundred and thirty groups, including a few duplicates and a few Old World species. This collection of American Hawthorns is the result of work carried on by the Arboretum during the last fourteen years. During this time most of these plants have been discovered, and many of them have been named and described. They have all been raised from seeds at the Arboretum, and thousands of the young plants have been distributed to cultivators in the United States and Europe. This Crataegus investigation has meant many thousand miles of travel by officers of the Arboretum and by its correspondents and friends, and in the last forty years American Crataegus seeds under thirty-two hundred different numbers have been sown, seeds of widely distributed species collected in different parts of the country having been sown in order to show possible geographical variation in the seedlings. This investigation has brought to light a large number of beautiful hardy trees and shrubs well suited for the decoration of the parks and gardens of cold temperature regions; and the collection on Peter's Hill, already interesting, should before many years have passed be one of the spectacular features of the Arboretum in spring and autumn. American Hawthorns are distributed from Newfoundland and the northern parts of the Province of Quebec to Florida and Texas, and to the Pacific Coast in the northwest. The largest number of species grow together probably on the streams which flow into Lake Ontario both from the north and south, in southern Missouri and in southern Arkansas. The genus has few species in the Rocky Mountains, and these are small in size and not numerous in individuals, and in the northwest there are only a few widely distributed species. Some of the American Hawthorns are trees which in the rich bottom-lands of the Mississippi valley attain a height of thirty or forty, or even fifty, feet with tall straight trunks and widespreading branches, many are shrubby in habit, and there is one group *(Intricatae)* in which nearly all the species are small shrubs rarely more than three or four feet high. These small shrubs bear large and showy flowers followed, in the case of many of the species, by large, bright colored and abundant fruits. They are valuable and interesting plants therefore for small gardens. In spite of all which has been done at the Arboretum to discover and introduce these plants, the investigation must be considered as not more than fairly begun, for there are still thousands of square miles of territory in North America where Hawthorns grow which have not been explored with reference to these plants.

Aronia, a genus of the Rose Family, confined to eastern North America, sometimes considered a section of the genus Pyrus, contains valuable plants for the garden shrubbery. There are three species, all widely distributed in the eastern part of the country, *Aronia melanocarpa*, *A. atropurpurea* and *A. arbutifolia*. They all have small white flowers with rose-colored anthers borne in erect compound clusters, showy fruits and handsome foliage. What is believed to be the type of *A. melanocarpa* is a shrub twelve or eighteen inches high, with stems spreading into a broad mat. There is a form of this species (var. *elata*), however, which is much more common and grows into a shrub from six to ten feet tall, and another form (var. *grandifolia*) with broader leaves; this is also a tall shrub. The fruit of this species is black and lustrous, and drooping on long stems hangs on the plant during the winter. *Aronia atropurpurea* is also a tall shrub, in general habit and foliage like the var. *elata*. The fruit, however, is dark, vinous red and ripens and falls earlier. The leaves of these two species turn orange and red in the autumn before falling. *Aronia arbutifolia* is a tall, slender shrub of irregular habit, with flowers which open later than those of the other species, smaller leaves, covered with white down on the lower surface, and erect clusters of small, bright scarlet fruits which remain on the plants without change of color well into the winter. The brilliant fruit and the bright scarlet of the autumn leaves makes this late in the season one of the most beautiful of all our native shrubs. Less common in the north, perhaps, than the other species, *Aronia arbutifolia* is a very common plant in all the southern states where it is very generally distributed, often growing in great abundance on the margins of small depressions in the Pine woods which in spring are filled with water. All the forms of Aronia are easily cultivated and are now in flower in the Shrub Collection.

VANILLA POMPONA.



A handsome climbing orchid, native of tropical America. Vanilla pompona differs from V. planifolia from the seed pods of which is produced most of the vanilla of commerce, in its shorter and thicker foliage and seed pods and its more profuse blooming. The flowers are larger also, yellowish in color and last but two days in perfection. The plant from which the photograph was made is at the orchid establishment of Julius Roehrs Company, Rutherford, N. J. It is particularly interesting from the freedom with which it sets its seed pods here, something which is very rare in European cultivation. The Vanillas are the only orchids having any economic value so far as we know.

THE HAPPY GARDENER.

Oh! the glorious profession
Of the gardener—for just see
How he holds in his possession
All flowers, vines, shrubs and trees.

Even charms of old dame, nature
He claims are his by right,
And he for higher wages
Now fain would go on strike.

In regard to compensation,
Well may the gardener smile,
For a balance in equation
Shows boss behind a mile.

Enjoying constant pleasure
While boss gets scarce a peek
At dame nature's golden treasure,
It may be once a week.

So to equalize life's burdens
I, George, the plan suggest,
That the gardener pay a premium,
He is so highly blest.

The foregoing lines were suggested by George C. Watson's remarks on the subject in the last number of HORTICULTURE. Let some one else give us the other side.

ALEXANDER MACLELLAN.

Newport, R. I.

CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' CLUB.

The meeting on May 21 was the first slimly attended meeting the club has had, partly owing to the business of the season and partly to the fact that the notices contained no intimation of the paper by Mr. Nagle, but even with these two handicaps the attendance reached about one-third of the membership.

The Co-operative Buying Committee reported good progress all along the line and urged the members to make full use of the privileges that have been extended to us locally.

The Flower Show Committee reported progress and promised to have further details for next meeting. The date for the show is definitely fixed (Nov. 6th and 7th) and any out-of-town exhibitors might as well begin to get busy.

The Picnic Committee have arranged for a picnic at Mt. Gretna about the 16th of July, with a special train from Lancaster, at a total cost of less than $2.00 per person for all expenses including two meals (good ones).

Mr. Nagle's paper on Bedding Plants was an excellent paper recommending a greater variety of plants for bedding purposes and greater care in the preparation and planting of beds, to give better service to the buyer.

Lancaster is strong on the Service question. Every club of which the writer is a member has made this a slogan, "Give the best service possible for the money." The Young Business Men, The Advertisers' Club, The Florists' Club are all using every effort to keep this before their members and through these clubs all of the civic organizations are taking it up.

The next meeting will be June 18th, with papers on Asters by Chas. M. Weaver of Ronks, and on Gladioli by Ira H. Landis of Paradise. This latter city is the home of gladioli in this section and we are looking forward to a treat intellectually, as Mr. Weaver is an authority on asters and sweet peas. He does not believe in spreading his efforts over a wide area, but in keeping them to one or two things and doing those well.

ALBERT M. HERR.

FLORISTS' CLUB OF PHILADELPHIA.

P. D. Barnhart, editor of the "Pacific Garden," gave a delightful talk on the glories of the "garden of Eden" known as Southern California, at the regular monthly meeting held on the 2nd inst. He held a large audience spellbound for nearly two hours and then stopped only on the advice of his wife. At the conclusion the club voted as one man to move out to Los Angeles. Commodore John Westcott was appointed chairman of the committee on transportation for the Boston Convention in August. The outing committee were indorsed as to their plans for the 22nd, already reported in these columns. Theodore Shober reported that he hopes to be able to get a team of bowlers for the Convention, although the enthusiasm does not seem to be very hot so far. This is a sad fall-down from the fire-and-ginger of the ancient days. Where's Anderson and all the rest of the old war horses? We fear the good bowlers never really appreciated what a good committee meant. They have been laboring under the belief that their talent was what made all the noise. Not unless there were some good gardeners back of it to usher the bud into bloom. Never forget the Commodore's dictum: "If you are going to hold school you must get the scholars." You will not get the scholars if there's no prospect of some play in between. This bowling and sporting matter is of great importance, taken in that light. Get the attendance. The rest follows.

DATE OF PEONY SOCIETY SHOW.

The dates of the Chicago Show of the American Peony Society have been advanced from June 12-13 to Tuesday and Wednesday, June 9-10.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that Peter Henderson & Co., 35-37 Cortlandt street, New York City, offer for registration the Geranium described below. Any person objecting to the registration or the use of the name proposed, is requested to communicate with the secretary at once.

Raiser's description: A "sport" from Geranium Double Gen. Grant. Habit and foliage same as the parent variety, flowers deep salmon. Name, General Funston.

The United States Nursery Co., S. W. Crowell, manager, Roseacres, Mississippi, offer for registration the Rose described below. Any person objecting to the registration or the use of proposed name, is requested to communicate with the secretary at once.

Raiser's description: A sport from Climbing American Beauty. Identical with the parent in growth, foliage and general appearances, except the color, which is a deep pure pink. The variety is very floriferous, and the flowers maintain their color until the petals fall.

Name, Climbing Pink American Beauty.

Failing to receive objection to the registration, the same will be made three weeks from this date.

As no objection has been received or filed to the registration of Laeliocattleya Tuttleæ, by Mrs. B. B. Tuttle of Naugatuck, Conn., same becomes complete. JOHN YOUNG, Sec.

May 29, 1914.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Special prizes to be awarded at the Annual Convention and Exhibition of the Chrysanthemum Society of America in conjunction with the State Florists' Association of Indiana, at The German House, Indianapolis, Ind., November 6, 7 and 8th, 1914.

Chrysanthemum Society of America silver cup, for the best 10 blooms, long stems, any variety.

Elmer D. Smith & Co. prizes, for 15 blooms, considered from a commercial standpoint, 3 varieties shown in one vase, seedlings permissible, artificial supports prohibited. 1st, $15.00; 2nd, $10.00.

A. N. Pierson prize, for the best 25 blooms Indian Summer. $25.00.

Philip J. Foley prize, for the best 10 blooms Chrysanthemum not disseminated. $10.00.

Chas. H. Totty prizes, for 6 blooms Mendon. 1st, $10.00; 2nd, $5.00.

Wm. Wells prizes, for 2 blooms James Fraser. 1st, gold medal; 2nd, silver medal; 3rd, bronze medal.

Henry A. Dreer prize, open to private gardeners only, for the best 10 blooms Chrysanthemum, one variety introductions 1913 and 1914.

Lord & Burnham Co. prize, for 6 vases, 6 varieties, three blooms of each on long stems. Gold medal.

President Wm. Kleinheinz prize, for the best 10 blooms white. Silver cup, value $25.00.

H. E. Converse prize, for the best 10 blooms H. E. Converse. Silver cup, value $25.00.

H. F. Michell prizes, for 12 blooms, 12 varieties, 1 flower each, short stems. 1st, $15.00; 2nd, $10.00.

Hitchings & Co. sweepstake, for the most meritorious exhibit in the exhibition. Silver cup.

CHAS. W. JOHNSON, Secretary.

AMERICAN SWEET PEA SOCIETY.

The preliminary schedule of the Sixth Annual Exhibition and Convention of the American Sweet Pea Society has been received from Secretary H. A. Bunyard. The exhibition will be held under the auspices of the Horticultural Society of New York at the Museum of Natural History, New York City, on Saturday and Sunday, June 27 and 28. Besides the open and miscellaneous classes there are sections for private gardeners, private gardeners and amateurs, amateurs, retail florists and school children. Very many of these prizes are specials by individuals and firms, and the table decoration premiums are contributed by the New York Florists' Club. In addition there is a section in which prizes amounting to $200 are offered by the Horticultural Society of New York.

The final schedules will be ready for distribution June 20.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The regular meeting of the club on June 2nd, was not largely attended, but nevertheless was very interesting.

P. T. Barnes, connected with the Entomological Department of the Board of Agriculture of Pennsylvania, gave a talk on spraying. He had a number of specimens of twigs and branches showing the work of the various scales, and also pictures as an aid in identifying them. The Lime-Sulphur wash is still the standard

remedy, he says. In speaking of the rose chafers, and the difficulty of poisoning them, he recommended that the arsenical solution be slightly sweetened to induce them to eat more of it.

Letter was read from Richard Vincent, Jr., in regard to making the trip to the S. A. F. Convention in Boston by way of Baltimore and steamboat up the coast to Boston. This seemed to strike some of the members favorably, and Vincent's letter was reinforced by Robert Hunter, Commercial Agent of the Merchants' & Miners' Transportation Co., who was present and gave the rates from Pittsburgh to Boston via Baltimore and boat. In anticipation of the demand, Mr. Hunter said he had reserved ten staterooms for use of the Pittsburgh party. It was finally left that those who wished to make the trip via Baltimore and boat, should arrange with Mr. Robert Hunter, 1004 Bessemer building, Pittsburgh.

The exhibition of flowers was small and I can only account for it on the theory that the members were embarrassed with the richness of the material about them. Such crops of out of door flowers have perhaps never been known in the vicinity of Pittsburgh. The rose crop is abundant and the peony crop is marvelous for its abundance and fine quality. Peonies were shown by H. C. Knauff, Alleghany; laelias by T. Tyler, German iris by Mr. Alker, and tulip tree by Carl Becherer, Dixmont, Pa.

H. P. Joslin, Sec'y.

CLUB AND SOCIETY NOTES.

The next meeting, the closing one for the season, of the New York Florists' Club will be held at the Club rooms next Monday evening, June 8.

The Cincinnati Florists' Society will hold its regular meeting on Monday evening, June 8th, at the club rooms in the Flower Market. The special business will be the nomination of officers as well as taking up the question of the annual outing.

The Chicago Retail Florists' Association met June 1st and over sixty were in attendance. The chief topic of discussion was the first issue of their little publication which they are offering free to the trade. Plans are under way for an outing later on.

The monthly meeting of the Nassau County Horticultural Society was held May 13th at Glen Cove. Prizes for the fall shows were received from J. M. Thorburn Co., John Wilk, Cottage Gardens Co., Pierson U-Bar Co., Lord & Burnham Co., Titus & Bowne, Kohler Bros., F. B. Edmonds and C. A. Coffin. Mrs. F. S. Smithers presented for competition a set of valuable books. Awards for exhibits were made as follows: Darwin tulips, H. Gaut; flowering shrubs, F. Honeyman; lettuce, J. McCarthy. Cultural certificates to H. Gaut for clarkia and J. Robinson for lilium. Honorable mention to A. Fournier for Darwin tulips. The annual Rose Show was postponed to Tuesday, June 16th. Mr. Gommersall, of Nyack, gave an inspiring address on Hardy Gardens and Perennials.

Harry Jones, Cor Sec.

HORTICULTURAL CLUB OF BOSTON ON A VISIT TO SOUTH LANCASTER, MASS.



Left to Right, Standing—W. A. Manda, P. Welch, Jas. F. M. Farquhar, John K. M. L. Farquhar. Seated—Wm. J. Stewart, Wm. Sim, Jos. T. Clarke, S. J. Goddard, Thos. Roland, Alex. Montgomery, E. Allan Peirce, Jos. Fuller, M. A. Patten, Peter Fisher, Wm. Anderson, Fred A. Wilson, Jackson Dawson, J. B. Shea.

On the occasion of the visit of the Horticultural Club of Boston to the Bayard Thayer estate at South Lancaster, Mass., described in our last issue, a brief tour was also made of the neighboring John E. Thayer place, under the escort of Mr. Thayer and his superintendent, Mr. Clarke. It was here that the accompanying group picture was taken.

The John E. Thayer place is older than that of Bayard Thayer and the trees and shrub plantation are more mature. There are some noble evergreens and the pyruses blooming at the time of this visit presented a scene of floral beauty the equal of which had never been seen by any of the visitors. Tulips, daffodils and other spring flowering bulbs, etc., were scattered over the grassy slopes in myriads and the impressive vistas opened here and there from suitable vantage points, commanding views of a wide expanse of country, were enthusiastically admired.

THOSE NEMATODES AGAIN.

Fifteen years ago there was little doing with peonies; since then they have grown in importance and the sales are enormous.

It is very unfortunate that a baseless scare should come in to injure the business. I have a right to speak. I have been raising peonies thirty years, and for the last sixteen years have made it an especial business. I have published two editions of the peony manual and have had one of the Nebraska experimental stations for a number of years. We have probably handled more peonies than any other firm. I have watched these plants as a doctor would his children, and have noted their diseases and described them in my last manual.

The French club foot disease is a mystery—a root infested with it is incurable and should be thrown away. To get at the bottom of this theory I sent two roots, one of the club foot and one with nematodes, to Dr. Ernest Bessey, son of Dr. Charles Bessey, one of our most renowned scientists. Dr. Ernest Bessey is in charge of the pathological department of the U. S. station at Miami, Florida—the highest authority in the land. He says: "You see that I confirm the correctness of your observation that the two diseases are entirely different." He found no nematodes in the club foot.

I have often found my most robust and vigorous plants infested with these nematodes and the roots often enlarged by nodules. The rankest growing ones—like Andre Saures, Marechal Vaillant and Grandiflora rosea, almost always have more or less. These are all robust growers and prolific bloomers. Now if these nematodes are dangerous, I surely ought to know it. In selling we usually strip off the nodules. For my own planting I don't care whether they are on or not. I think that they are often more of a benefit than an injury and just like the nodules on the alfalfa that increase the root power of the plant.

Peonies should never be replanted on the same ground, not on account of the ground being infested, but because the plant is a rank grower and exhausts the food necessary. You cannot plant potatoes year after year on the same ground. Now if you want to find robust and vigorous peonies come to my place where I can show you as fine plants as you can see anywhere, some of them well lined with nodules.

C. S. Harrison

York, Neb., May 29, 1914.

RHODODENDRON (AZALEA) VASEYI.

This beautiful early-blooming American azalea has passed through the exceptionally severe winter unscathed and made a lovely show along the Riverway and the shores of Jamaica Pond in the Boston park system where it was abundantly planted by the late Mr. Pettigrew. While the flower buds of the Kaempferi and other deciduous rhododendrons have this spring been very generally blighted, Vaseyi shows up without a scar. The view shown in our cover illustration was taken on the Riverway, overlooking Ward's pond.

NEW CORPORATIONS.

Ann Arbor, Mich.—Ann Arbor Greenhouse Co., capital stock, $25,000.

San Francisco, Cal.—Western Evergreen Company, Inc., nursery and floral business. Capital stock, $10,000.

Dover, Del. — Greenhouse Garden Products Co., capital stock, $50,000. Incorporators, W. I. N. Lofland, W. F. P. Lofland, William Boyd.

PERSONAL.

L. H. Read has been appointed postmaster of Deer Park, Ala.

Bernard Greeley, lately gardener for Gen. Miller, Franklin, Pa., has accepted the position of head gardener for Mr. J. W. McCahan, Moorestown, N. J.

PANSIES AT KENILWORTH.



One of the prime attractions of Kenilworth, N. J., is the pansy farm of Charles Frost, whose name is well-known to HORTICULTURE's readers as an advertiser of choice pansy seed each season. Mr. Frost had been long established as a truck farmer when a few years ago his interest was diverted to pansy culture, since which time his attention has been given entirely to this work, purchasing distinct and desirable new varieties whenever they appeared abroad and, by careful selection and breeding, aiming to produce reliable strains in the various show and bedding classes.

The place occupies about five acres, the greater part of which is devoted to the pansies, which are planted in long beds of separate colors, forms and markings, some of the more valuable being isolated as much as possible with a view to insuring immunity from disturbing pollen. A list of the classes segregated would make a long catalogue. There are Kenilworth Giant, Kenilworth Show, Kenilworth Cut Flower Mixture, Masterpiece, Princess, Orchid Flowered, Madam Perret, Giant Zebra, Adonis, Pres. McKinley, Psyche, Rainbow, etc., and a legion of self-colors, five blotched, silver-edged and gold edged, the bronzes, oranges and red shades being especially numerous and attractive. Mr. Frost is doing a good service for the pansy industry and doing it thoroughly and conscientiously.

A FINE TULIP DISPLAY.



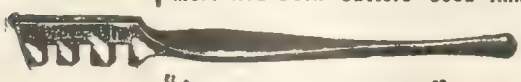
Those of our readers who attended the S. A. F. Convention at Minneapolis will recognize in the accompanying picture the site of the Convention Garden. So pleased were the Minneapolis people with that feature of the florists' visit that it was decided to adorn the grounds permanently as a show place and this spring's initial display is shown in the picture. The long bed at the left is planted with White Hawk and Artus tulips; at the right is La Reine and in the oval bed is Yellow Prince. No finer beds of tulips can be imagined and in this unfavorable season when so much complaint of poor flowering of tulips is rife it must be exceedingly gratifying to A. T. Boddington who supplied the bulbs, to see how excellent in quality his bulbs are here shown to be.

PUBLICATION RECEIVED.

We have just received from The Cornell University, Bulletin No. 342 upon sweet peas. This is the most ambitious monograph to our knowledge upon the sweet pea, containing a list and description of nearly 700 varieties. This will be sent by Secretary Bunyard to all members in good standing. It contains about 150 pages, also much valuable information apart from the descriptions and history of the different sweet peas above mentioned. There are many full page portraits of special varieties and a complete index gives added value to this indispensable publication in which Prof. Beal has done much painstaking work.

Hillsdale, N. J.—In the violent storm of May 27, the corner of Charles Follette's greenhouses was carried away by the wind.

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E PLURIBUS UNUM.

The editor of HORTICULTURE has done many fine things during the ten years he has conducted his unique journal; but among them nothing finer than the finds he has made among eminent horticulturists who could write.

Men like Jenkins, Farrell, Pope and many others, have been a revelation to us and have been the means of setting a new pace and a new standard in horticultural literature and practice. This service is beyond money and beyond price. It has elevated the standard of thought and action to an extent little realized by the man who has only time to skim the headlines—too busy to sit down and think things over.

The latest find of HORTICULTURE, to my mind, is Arthur Smith. I have no idea where he came from, but his article in last week's issue on the gardener's problem is fine and indicates more than local training. That is the kind of literature we are badly in need of in the United States. He discusses things from a broad and experienced point of view, and it is a great pleasure to hear from him. Let us hope we may hear from him some more.

One of the most pleasing things to the writer is that he advocates all the things the writer has expressed himself on. The things he disagrees with are the things other men set up as straw men—when they are short of argument. So you see Mr. Smith and yours truly are on an even keel and can have a little friendly talk without getting warm on any point. That postulate is always essential when any question is to be thrashed out.

Now then, in all good humor; about this "E Pluribus Unum" business. (United we stand, divided we fall.) What did we fight and bleed and die for in 1776 but for E Pluribus? If we grocerymen get tired cutting each other's throats in this year 1914 and get together to agree on a living price—where's the harm? If we lads with our only commodity—labor—get together in the same way, where's the harm? Parenthetically it may be well to emphasize the fact that labor is the commodity the laborer has to sell and is subject to the law of supply and demand—like all other commodities. If E Pluribus is good for one commodity it is good for all. The prophet, priest and king; the professor, scientist or philosopher, are no exceptions, any more than the merchant or the laborer, to this rule.

Now, another small point. About the seedsmen. Granted, some seedsmen are too busy to exercise that discretion and judgment (which I think they should) about the thousands of men who call on them for jobs and which houses like Farquhar, Henderson and Dreer positively do, and always have done, what then? Where is the obligation? They are business men. They have their rent, wages and taxes to pay; and their first duty is to pay their just debts. If they should be generous enough to become an altruistic institution for the benefit of the gardener the gardener ought to be thankful. I am not defending the seedsmen. They need no defence. If some of them are high-minded and good-hearted far beyond ordinary business practice that is a matter for glorification of such who do, but not for condemnation of those who don't.

Now about those "exams" and the diploma; is the gardeners' society big enough yet to handle that? It is by no means on a plane with the Royal Horticultural Society so far as I can see it.

But anyway, the ice has been broken and further discussion will be of educative value and helpful to all interested. And everyone in the trade—florist, seedsman, nurseryman, all the trade—is interested in the gardener, directly or indirectly. Let us hear from some others. And let every one stick to fundamentals and forget personalities. I submit this as the next question. Are not low wages the cause of the scarcity of first-class gardeners? GEORGE C. WATSON.

THE VERDICT.

Editor HORTICULTURE:

Mr. Watson, in summing up our discussion which has now occupied space in your columns for some weeks past, charges that "Mr. Ebel now admits that educating the employer up to the point where he will pay his gardener a decent salary is not "a fallacy" as he at first claimed. In fact he claims that same thing is now being done."

Mr. Ebel has admitted nothing of the sort! I have never declared that such education, of which I am a strong advocate, is "a fallacy;" but I have declared that "All credit for promulgating the fallacy that those who may require the services of gardeners can be educated that the gardeners' minimum wage scale must be $100 shall go to those who foster it."

I will contribute $100 to any worthy cause that Mr. Watson may name, if he can show, or that anyone else may name who can show how, what I am charged with stating can in any wise be construed into an identical meaning with anything I really did state.

As Pope says:

"Words are like leaves and where they most abound,
Much fruit of sense beneath is seldom found."

M. C. EBEL.

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In writing to Advertisers kindly mention Horticulture

BRITISH HORTICULTURE.

The Chelsea Show.

In brilliant weather the spring show of the Royal Horticultural Society was opened at Chelsea on Tuesday, May 19th. The orchids, of course, made a magnificent display, the chief exhibitors being the Duke of Marlboro, Sir Jeremiah Colman, Sander & Son and Charlesworth & Co. The number of novelties placed before the judges numbered over two hundred; ten received first-class certificates and twenty-four awards of merit. Nine of the certificates were given to orchids. A collection of irises, shown by W. R. Dykes, attracted considerable attention. One of the best (Gold Crest) received an award; it is a hybrid between Pallida and Cengialti. Professor Bayley Balfour sent from the Edinburgh Botanic Gardens a number of new Chinese Alpines. Koster & Co. contributed a new race of azaleas, derived from crossing the white Occidentale with the garden varieties of Mollis. Messrs. Bees, Ltd., had a number of new Chinese plants of dwarf habit; Primula secundiflora was given an award; this is similar to P. sikkimensis. Awards were also made to Blackmore & Langdon for a new begonia, Lady Carew, and to C. Engelmann for carnation Scarlet Carola.

Some Interesting Features.

There was a splendid array of rock gardens, each replete with endless suitable subjects. Ornamental trees and shrubs made a fine show. John Waterer & Sons exhibited a grand selection of rhododendrons. Clipped trees by Cutbush & Son, Japanese maples from Fromow & Sons, and trained fruit trees from Laxton Bros., were other notable features. In the open there were some admirable examples of artistic garden planting. Gold medals were awarded as follows: Sir Jeremiah Colman, Charlesworth & Co. and Sander & Sons for orchids; L. R. Russell for trees and shrubs; Barr & Son, tulips; Blackmore & Langdon, begonias; Cutbush & Son, roses; May & Son, ferns; Sutton & Sons, florists' flowers; Veitch & Sons, stove plants and azaleas; Webb & Sons, flowering plants; F. Cant & Co., roses; Dobbie & Co., sweet peas; Sir Everard Hambro, alpines and primulas. W. H. Adsett.

AN UNIQUE AZALEA COLLECTION.

An interesting fact in connection with the collection of azaleas advertised in this issue by K. J. Kuyk, is that the set was the result of many years collecting by Mr. Kuyk for the purpose of making a record display at the great Ghent centennial exhibition. It received a gold medal award on that occasion. There are 100 plants, 100 varieties, uniformly trained, and selected to bloom all at the same date, each with a circumference of about nine feet. The collection comprises the cream of the modern introductions.

The six weeks' drought which has held all crops back and done incalculable damage in Alabama was broken on the 27th by copious showers, and it is hoped that they may continue so that belated crops may be able to recover.

THE GLAD HAND

GLADIOLI—GLADIOLUS—GLADIOLUSES

Which is rignt? The only way to find out is to plant some of our stock and if planted now or even later, they will bloom when the earlier planted stock is passed; which means higher prices for the flowers and is good business.

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Boddington's Quality Gladioli

AMERICA (Our Specialty). This beautiful new Gladiolus has produced as great a sensation as the now famous Princeps. The flowers, which are of immense size, are of the most beautiful flesh.pink color, and, as a florist who saw it said, it is "fine enough for a bride's bouquet."

Selected Bulbs, 2 to 2½ inches.....$1.50 per 100, $12.00 per 1000
1st size, 1½ to 2 inches..... 1.25 per 100, 10.00 per 1000
2nd size, 1¼ to 1½ inches..... 1.00 per 100, 9.00 per 1000

	100	1000
HOLLANDIA (The Pink Brenchleyensis). Flowers well arranged on a spike which attains a height of about 4 feet. Often as many as 30 blooms of a charming pink shade tinted yellow are open at one time. First size bulbs	$1.75	$15.00

PEACE. The flowers are large, of good form and correctly placed on a heavy, straight spike. They are a beautiful white, with a pale lilac feathering on the inferior petals. "Peace" is not an early bloomer, but rather medium to late, and planted at the same time with other stock, it is in its best condition when most other varieties have passed blooming. Per doz., $1.25; per 100, $9.00; per 1000, $85.00.

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MRS. FRANK PENDLETON, JR. Order early to procure Mrs. Frank Pendleton, Jr. Awarded First-Class Certificate of Merit by the Massachusetts Horticultural Society of Boston and by the American Gladiolus Society at Baltimore, 1911. Its color is the most exquisite salmon-pink with a very conspicuous blood-red blotch in the throat on the lower petals. Per doz., $5.00; per 100, $40.00.

PINK AUGUSTA. Color a lovely soft pink. This variety is especially suitable for forcing under glass, for which purpose it is especially recommended. Per doz., 35c.; per 100, $2.50; per 1000, $20.00.

	Doz.	100
I. S. HENDRICKSON. A beautiful and irregular mottling of white and bright, deep pink; in some the pink and in others the white predominates. Flowers and spikes very large and fine	$.75	$4.75
MADAM MONNERET. Delicate rose; late bloomer. Per 1000, $26.75	.50	2.75

	100	1000
BRENCHLEYENSIS (true). Fiery scarlet.		
Top roots, XXX, 2 and 2½ inches	1.50	14.00
First size bulbs, XX, 1¾ to 2 inches	1.25	12.00
Second size, X, 1 to 1¾ inches	1.25	10.00
BODDINGTON'S WHITE AND LIGHT. First size, XX, 1¼ to 1½ inches	1.25	12.00
1900. Nothing finer for florists' use. Flower is of a rich shade of red, with very prominent white spots on three lower petals	1.75	15.00
MRS. FRANCIS KING. Color of flower is a light scarlet of a pleasing shade. First size, XX, 1¼ to 1½ inches	1.75	16.00
PRINCEPS. Color rich crimson, with broad white blotches across the lower petals. Flowers can be grown to nearly 8 inches in diameter under stimulating culture	3.75	35.00
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SHAKESPEARE. White and rose	4.25	40.00
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PINK AND ROSE SHADES	1.75	16.00
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CHILDSII. First quality, mixed; dark shades	1.75	16.00
Good quality, mixed; light shades	2.50	22.50

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A Criticism of Agricultural Department Methods.

Editor HORTICULTURE:

Strictly speaking, I think that government should (a) collect taxes equitably (b) expend them equitably for strictly public purposes (c) prevent the strong from overpowering the weak. To adopt the language of the Carpenter: "Whatsoever is more than these cometh of evil."

I am inclined to this thought by a contemplation of page 1 of the bulletin from Office of Information, U. S. Department of Agriculture, released June 2nd, 1914. The instances on the first page of this bulletin give me the impression that the autocratic Department of Agriculture is exceeding the proprieties (P. 1) in punishing a manufacturer whose percentage of nicotine is 8.47 instead of 10, a difference which might easily occur because of the lapse of time. In the second paragraph the Department is not frank with the public. It fined the shipper because his nicotine was "less than 45 per cent." How much less? Probably another trifle. The third paragraph also lacks frankness. The shipper is fined fifty dollars ($50.00) because the goods "contained less nicotine than was claimed to be present." How much less? Perhaps another trifle.

The business looks like persecution, a result to be expected when government undertakes business which should be left to the individual. This is what the Department of Agriculture has been doing through many administrations. There should have been a cleaning-out when the democrats took hold; apparently there has not been. The Department still arrogates to itself prosecutor, judge, jury and executioner. The accused has little show for defence, however innocent he may be. These bureaucrats seem to think they must make a show to hold down their jobs, even at the expense of hurting innocent people.

SAMUEL MILLIKEN.

The Newport, Philadelphia.

Notes.

Atlanta, Ga.—A new seed store has been opened by the Smith Bros. Seed Company at 127 Whitehall street.

Flora, Ill.—The business of Borders, Chaffin & Co. has been purchased by the Louisville Seed Co., of Louisville, Ky.

Schenectady, N. Y.—The Schenectady Seed Store, Orlop & Ladeau, proprietors, have commenced business at 140-142 Clinton street.

Eric Sutton, son of Leonard Sutton, Reading, England, with Edward Tufnail, flower seed manager of Messrs. Sutton & Sons, are visiting the trade in this country. They were guests of Howard M. Earl at the Burpee Buildings, Philadelphia, and Fordhook last Friday. On Monday the party started for the west, Mr. Earl making his usual annual trip to California and Messrs. Sutton and Tufnail going to the Coast by way of Denver, and later on will visit the Burpee sweet pea cultures at Floradale, Calif.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

Prof. James G. Pray, director of the graduate school of Landscape Architecture at Harvard University, was the speaker at the Landscape Art Club Friday evening, May 22. Prof. Pray told of the opportunities open to men who had completed graduate work in landscape architecture. He declared that the field is far from being crowded, giving statistics of the average salaries paid such graduates to prove his point. In closing, the speaker pointed out some of the things that can be done in civic betterment.

The M. A. C. Country Life Club has its regular meeting Wednesday evening (May) of each week. The club, but recently formed, is making rapid strides forward. Its objects are to study all problems of country life, rural education, rural sociology and rural economics.

President Butterfield announced, recently, the signing of the bill by Governor Walsh for the agricultural building. This means that after a history of over fifty years, M. A. C. will be an agricultural college with an agricultural building to house that department.

The senior class in Landscape Gardening spent several days in visiting private estates in Lenox and Great Barrington, Mass. They visited sixteen places in all. The chief features of landscape importance were the magnificent views and the formal gardens. It was especially noted how well the estates were kept up and the splendid condition of the roads in that part of the state.

W. H. HATFIELD.

Warren, R. I.—James Rodger, formerly head gardener for Fred. Peck, of Barrington, has purchased the Vernon street greenhouses in this town and intends to put before the public a first-class line of plants and flowers. Mr. Rodger is an expert landscape gardener and is well known for his good work.

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3000 Brenchleyensis	1.00	10.00
1000 May	1.75	15.00
8000 Princeps	2.50	20.00
10000 Mrs. F. King	1.50	10.00
3000 White and Light	1.50	12.50

Caladium Bulbs

Mammoth Bulbs	6.00	50.00
1st Size	4.00	35.00

Tuberoses 4 x 6

90c per 100, $7.50 per 1000

Send for Wholesale Price List

Charge Accounts Invited

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LETTUCE—Grand Rapids, Boston Market & Big Boston, 20c. per 100; 75c. for 500; $1.00 per 1000. Cash with Order.

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Extra large size

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ST. PAUL, MINN.

Of Interest to Retail Florists

Syracuse, N. Y.—W. Boultman will shortly open a flower store on James street. He was formerly with D. M. Edmunds & Sons.

Schenectady, N. Y.—G. E. Kopper, proprietor of the Rosendale Greenhouses, has purchased the establishment of J. H. Friedrichs, 126 Jay street.

Pittsburgh, Pa.—The Pittsburgh Cut Flower Company has purchased a lot on Sandusky street 40 x 100 feet, the purchase price being reported as $120,000. The company plans to erect a new building thereon for its own use.

STEAMER DEPARTURES

Allan.
Numidian, Boston-Glasgow..June 16

American.
St Louis, N. Y. S'hampton ..June 12
Philadelphia, N. Y.-S'h'pton ..June 19

Atlantic Transport.
Minnehaha, N. Y.-London....June 13
Minnetonka, N. Y.-London....June 20

Cunard.
Franconia, Boston-Liverp'l...June 9
Aquitania, N. Y.-Liverpool...June 10
Saxonia, N. Y.-Mediterr'n...June 11
Caronia, Boston-Liverpool...June 16

Holland-America.
New Am'dam, N. Y. Rot'd'm June 9
Noordam, N. Y.-Rotterdam. June 16

French.
La Savoie, N. Y.-Havre.....June 10
Niagara, N. Y.-Havre.....June 13
La Provence, N. Y.-Havre....June 17

Hamburg-American.
Kais. Aug. Vic., N. Y.-H'mb'g..June 9
Pretoria, N. Y.-Hamburg....June 11
Vaterland, N. Y.-Hamburg..June 16
Cleveland, Boston-Hamburg..June 16
Pres. Grant, N. Y.-Hamburg.June 18

Leyland.
Winifredian, Boston Liverp'l June 20

North German Lloyd.
Kpz Wilh'm, N. Y.-Bremen ..June 9
G. Washington, N. Y.-Br'm'n..June 13
Kr'p'z'n Cecilie, N. Y.-Br'm'n..June 16
K'g Albert, N. Y.-Mediterr'n..June 17

Red Star.
Finland, N. Y.-Antwerp.....June 13
Lapland, N. Y.-Antwerp.....June 20

White Star.
Cymric, Boston-Liverpool....June 9
Celtic, N. Y.-Liverpool.....June 11
Oceanic, N. Y.-S'hampton....June 13
Cedric, N. Y.-Liverpool.....June 18

NEW FLOWER STORES.

Syracuse, N. Y.—W. Boultman, James street.

Schenectady, N. Y.—George L. Smith, 619 State street.

Pawtucket, R. I.—M. Lowe, Rhodes on the Pawtuxet.

Hawley, Pa.—Miss Hattie Tuthill, Dingman building.

Detroit, Mich.—Fred Gerhardt and Fred Hopp, 980 Woodward avenue.

Arctic, R. I.—George W. Fraser, Denomme building, Gardner avenue and Main street.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
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Must be prepaid
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Auto delivery of Designs and Flowers to any address in Washington.
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Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and I St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Madison, N. J.—Frank Abraham has leased the greenhouses formerly conducted by A. H. & W. S. Schultz.

Enid, Okla.—The Enid Seed & Floral Company has discontinued its seed department and will hereafter be known as the Enid Floral Company.

Dallas, Tex.—The Brown-Dawson Company has bought the greenhouses and business of the Southern Floral Company at 4624 Bryan street.

Chicago, Ill.—John Brashazka has purchased the greenhouses of M. Schnuts at Clark & Ardmore streets and will probably move the houses to his plant at Maywood.

Alliance, O.—J. F. Zimmerman has purchased one acre of the John Wilson farm and will shortly erect a range of houses thereon. C. S. Ramsey has also purchased three acres of the same farm.

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THE J. M. GASSER COMPANY,
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Euclid Avenue

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Special Deliveries Niagara Falls and Lockport

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HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
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PHILADELPHIA NOTES.

Two old veterans have most unexpectedly come to my assistance. John Westcott and John Burton both declare that they have retired from gardening but that they are now glad to pay a premium to be allowed to wield the hose as of old and stand the thirsty plants a drink. So you see my little joke hit an echo in unexpected places.

Hail to good old Lancaster! Maybe you think that the virile red blood that flows along the banks of the good old Conestoga is getting sluggish with age. Forget it! And so they are going to have a flower show in Lancaster next fall. And we here in Philadelphia are all with them! The flower show's the thing. Beats all the newspaper talk. Come on everybody and help either with cash or exhibits.

Mr. Gracey reports that the date for the Florists' Club outing will not be the 16th after all but the 22nd. The changes from time to time are consequent on the Schuetzen Park being private club grounds and the arrangements of various members of which club and their affairs had to be consulted, and it was found difficult to make their dates and the dates suitable for the florists chime in. The games will start promptly at 3 p. m.

Mr. and Mrs. Wm. Kleinheinz leave for a trip to Europe about July 1st, and will return sometime in September or October. What will happen to Europe is not stated; neither are we in the confidence of America as to what might happen because! But we have much faith in the good lady; and with fair winds, and the Goddess of Good Fortune—we will welcome back our Wilhelm in due course. We cannot do without him.

Next Sunday the National Farm School people are to hold their annual spring festival. They will dedicate trees. They will give prizes to the most successful boys in horticulture. They will have speeches from distinguished men from far and near. They will have one grand old day for their multitude of admirers and sound on the harp with a thousand strings. They will have a Wiener lunch all day long. Dr. Washburn and Professor Fancourt will be everywhere and everyone can spend an interesting and enjoyable day. Train leaves Reading Terminal 9.30 A. M. and stops at all city stations. Return tickets $1.00. No other charge. Take the whole family with you. No pleasanter day imaginable. It will be a revelation in what is possible in farming and gardening if gone about in the right kind of way.

One of the events of the week is the rose and peony show at the Dreer double store on Chestnut street. All the finest varieties of these now in season are shown and the public are flocking to gaze, admire and buy. Mr. Thilow, Mr. McKubbin, Mr. Rothe and all the other well-trained and erudite employees are kept busy telling the visitors the interesting features of the different varieties. One of the "ferlies" of the rose show was the Daily Mail rose (Mme. Ed. Herriott); certainly very unique as to color and form. Another wonder was the yellow Paeonia lutea. Never saw it before; looked like a big double buttercup, the diameter of a dollar. The gem of the peony show, however, was that magnificent variety Mary Agnes Kelway, blush guard petals, cream center, immense in size and particularly perfect in form and substance. Calot, Wellington, Verschaffelt, and many other gems were there also in fine form. A show like this is a splendid public educator and good business besides. We can't have too much of it.

CHICAGO NOTES.

The florists' vocabulary sums up the condition of the wholesale market this week in one word.

Additional office help has been necessary at the Foley Greenhouse Mfg. Co.'s plant to take care of their orders.

The S. A. F. Convention at Boston is the objective point of many vacations this summer, judging from the comments heard everywhere.

Miss Loretta Foley recently distinguished herself in the play given by the Chicago Normal School Dramatic Club, of which she is president. Miss Loretta graduates in June.

The superintendency of Lincoln Park passes this week into the hands of Edward Kanst, Jr., who was formerly assistant landscape gardener of the South Parks. Lincoln Park will be in good hands and it is also a position to call forth Mr. Kanst's best efforts, being closest to the down-town district and preeminently the people's park on account of its easy access, its proximity to Lake Michigan and its magnificent "Zoo" of nearly two thousand animals.

Plant trade, always a large factor here, is showing still further increase this season. The augmented call for window and porch boxes and vases has made material for filling these greatly in demand, especially bright geraniums, ivy and vincas. Owing to an early frost last fall, which cut off the geranium plants before much of the stock was taken, the supply has been shortened and scarcely equal to the demand. An unusual amount has been sold without showing color. Trade in bedding plants in general has been very good and is not yet over. At the florists' stores, the greenhouses, the cemetery gates, &c., the season is still on. The department stores have also used enormous quantities of stock.

VISITORS' REGISTER.

Cincinnati, O.: G. H. Weld, from Sarcoxie, in the "Houn' Dog" State.

Chicago: Sam Seligman, New York; Thos. Heaven, Benton Harbor, Mich.

Boston.—R. Greenlaw, representing S. S. Pennock-Meehan Co., Phila., Pa.; A. E. Thatcher, Bar Harbor, Me.; Otto Heinecken, New York City; H. J. Ware, New York City; Hon. Vicary Gibbs, Aldenham House, England.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

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Thos. F. Galvin, Inc.

Established 1847

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CHICAGO

And Neighboring Towns

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REUTER'S Members Florists Telegraph Delivery

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New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

P. McKENNA & SON

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770 St. Catherine St., West

MONTREAL, CANADA

We give Special Attention to Telegraphic Orders

STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

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F. R. PIERSON CO.

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Manufacturers of all Kinds of

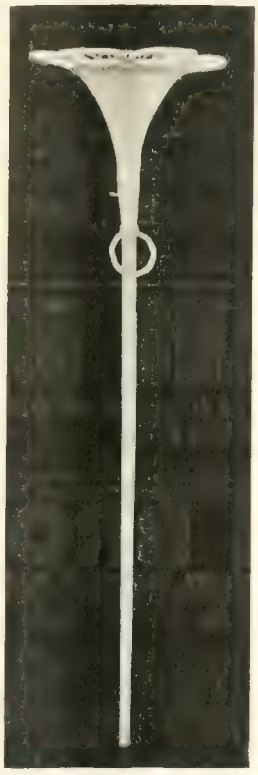
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WEDDING ACCESSORIES



No. 3



No. 4



No. 5

These Cuts Show Three of Our Latest Novelties Which We Term

BRIDESMAIDS' RESTING BASKETS

See Nos. 3, 4 and 5 in our Catalogue. And there are others, See Catalogue pages as follows:

Page 29, Kneeling Stool; Page 98, Shoulder Bridal Baskets No. 330; Page 97, Aisle Post No. 405; Page 95, Shepherd's Crook No 307, Directoire Staff No. 308, and Empire Staff No. 309.

Get Busy With These

Now is the Time

H. BAYERSDORFER & CO.

The Florists' Supply House of America

1129 Arch Street, - - Philadelphia, Pa.

TEXAS NEWS NOTES.

Austin.

This section has had up to date 21 inches of rain since January 1st, and at this writing it looks as if more were coming. The earth is saturated and springs of long ago, that have been dry many years, are now supplying babbling brooks and rippling rill that the children have not known. Our prairies are aglow with the maroon and yellow of the gaillardia, bright with coreopsis and the many varieties of the primrose, the callirhoe, sepachys and castilleja, with here and there a fine blue cluster of Salvia farinacea and the fragrant bee blossoms of hymenopappus. Oh, a central Texas prairie in May is a dream, an ecstacy, a thing almost too beautiful to be real, and while it induces a love for them, it makes them so common as to demoralize the public as a purchasing power, but the spring will pass and this riot of flowers will disappear and the florist come back as a public necessity with his line of dependable staples. H. B. BECK.

Pres. Austin Florist Club.

Houston.

H. H. Kuhlman reports a very profitable business on gladioli. He intends to make extensive improvements on his plantation, consisting of several hundred acres, and expects to erect a modern range of glass in the near future.

The Houston Florists' Club met Monday night, May 18th, and several matters were taken up regarding the Flower Show. Also amendment to the By-laws and Constitution, that gave a broader field to the work, was adopted.

Mr. Hewitt, the new manager of the Brazos Hotel Greenhouses, is making several changes and with his new grower expects to have every thing in nice shape by fall. Mr. Hewitt has had a great deal of experience in the florists' business and will evidently make a splendid showing.

Already extensive preparations are being made for the flower show to be held in Houston, in November. This will be the first real state flower show that has ever been had but from present prospects it is going to be one of the great attractions of Texas for the year. There will be a big premium list and every branch of the floral industry is expected to be represented at this the first annual show. There have been to date five local florists' clubs organized in the state and each of these clubs have taken particular interest in the flower show and will do all they can to make it a great success.

Fort Worth.

It is gratifying to note the splendid progress that is being made by the florists throughout the entire state of Texas. In many instances old houses are being torn down and new ones are taking their places. Usually the old houses are left standing and new ones erected nearby. The latest order placed for a new house that has been called to our attention is that of J. E. McAdam, 815 Main street, Ft. Worth. This new structure is to be 27 by 200 ft. When this building shall have been completed it will afford much added space which Mr. McAdam has been in need of for some time.

L. J. TACKETT.

25 Years' Experience

Making Flower Selling Refrigerators for Stores and Greenhouses. Perfect Refrigeration Ice Economy. Ask for Catalog X3.

United Refrigerator and Ice Machine Co., Kenosha, Wis.



Double Blue Corn Flowers
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PEONIES, large flowers, MAXIMA FESTIVA
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Get Your Young Stock Now, to Grow On for Next Season.
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Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.
Order direct or buy from your local supply dealer. Insist on having the
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BEST PRODUCED
226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 1			CHICAGO May 25			BUFFALO May 25			PITTSBURG May 25		
Am. Beauty, Special	20.00	to	25.00	25.00	to	35.00	25.00	to	30.00	20.00	to	25.00
" " Fancy and Extra	12.00	to	15.00	20.00	to	25.00	15.00	to	20.00	12.00	to	15.00
" " No. 1	8.00	to	10.00	10.00	to	15.00	8.00	to	15.00	6.00	to	10.00
Killarney, Extra	6.00	to	8.00	5.00	to	6.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	3.00	to	5.00	2.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	8.00	5.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " Ordinary	3.00	to	5.00	3.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Maryland,,Ward,Taft,Sunburst, Ex.	6.00	to	8.00	5.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " " " Ordinary	3.00	to	5.00	3.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	2.00	to	3.00	2.00	to	3.00	3.00	to	4.00	.....	to	3.00
" Ordinary	1.50	to	2.00	1.00	to	2.00	2.00	to	3.00	.....	to	2.00
Cattleyas	.....	to	50.00	50.00	to	75.00	40.00	to	50.00	25.00	to	40.00
Lilies, Longiflorum	8.00	to	10.00	8.00	to	10.00	6.00	to	10.00	6.00	to	8.00
Lily of the Valley	.....	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Snapdragon	3.00	to	6.00	5.00	to	10.00	4.00	to	7.00	4.00	to	8.00
Mignonette	4.00	to	6.00	4.00	to	5.00	2.00	to	4.00	2.00	to	4.00
Daises, white and yellow	.35	to	.75	1.00	to	1.25	1.00	to	1.50	1.00	to	3.00
Sweet Peas	.35	to	.75	.40	to	1.50	.50	to	1.00	.50	to	1.00
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	1.00	to	1.25	.50	to	1.25	.....	to	1.25
Smilax	.....	to	12.50	15.00	to	20.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	40.00	to	60.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	20.00	to	25.00	35.00	to	50.00	35.00	to	50.00	40.00	to	50.00

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WHOLESALE CUT FLOWERS
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Flower Market Reports

BOSTON

The story of last week, Memorial Day, and the present week in Boston is one from which very little comfort can be extracted by anybody. As predicted in these columns, there was an inundation of flowers for the floral holiday the equal of which never before encumbered this market. The peculiar sequence of weather vagaries during May all tended to a seemingly premeditated deluge of material, early things being delayed and late things hastened so that there was one grand conglomeration of outdoor and indoor products such as never happened before on one day. Growers and dealers who had the privilege of establishing prices for the stock paid little attention, however, to these portentious conditions which were plain to the eyes of anyone not purposely blind and proceeded to set figures just the same as if no accumulation existed. In the meantime the dealers in florists' supplies successfully executed a maneuver which beat all records and submerged the town under an avalanche of wreaths of prepared magnolia foliage with artificial flowers, very attractive to the eye of the average Memorial Day customer and at prices that were irresistible. With few exceptions the retail dealers went very heavily into these things. They extolled the keeping quality of these "most appropriate cemetery tributes" as compared with the soft, wilting, natural flowers at "extortionate" prices and certainly took full advantage of the opportunity to get even with the wholesale flower trade for many an old sore. Department stores, grocers, fakers and "hole-in-the-wall" merchants all joined in the game and the belated visitor to the cemeteries saw little else but preserved magnolia wreaths on all sides. It will be superfluous to attempt to draw a word picture of the wholesale flower markets under such conditions or to describe the fate of the mountains of roses and carnations, barrels of lily of the valley, stocks, sweet peas, candytuft, lilies, tulips and spiræs which were thrown upon this market last Friday and Saturday, so we shall ring down the curtain and give ourselves over to deep thought.

BUFFALO

The week previous to Memorial Day was rather a dull one, receipts heavy and sales at a low ebb. There was an over-supply on everything except possibly good colored carnations. Peonies, outdoor lilac, tulips, lily of the valley, narcissi, irises, deutzias and other stock helped break the market and still the outlet had not come. There was no sale for peonies till Friday and no season has yet been recorded where there were so few sold and at such low rates, the high figure being $5 per hundred for the best peonies, but the greater part sold for far less. The hot weather brought about a heavy supply of carnations, mostly white and Enchantress, and a greater portion had to be moved quickly, the weather had such a telling effect. The Beauty and other rose growers thought it was some other holiday than Memorial Day and roses of all grades, buds that never open and others that were full blown when taken from boxes were had in heavy supply. Sweet peas galore, lilies came in like Easter week, and there was the heaviest supply of any Memorial week than can be remembered. It can not be said that the volume of business was light, although the prices were away below previous years and in many cases the stock had to be forced on the buyers and at closing time on Saturday the coolers were still carrying a heavy supply.

It is very true that

Theodore Roosevelt

Put Oyster Bay on the map as far as knowledge of it to the outside world is concerned.

It is equally true that

The Pennock-Meehan Co.

Put Philadelphia on the map so far as the wholesale cut flower business is concerned.

It is equally true that we have many competitors but we are not jealous. There is room for us all in **THIS BIG WORLD.**

Get under the Pennock-Meehan Flag and March on to Prosperity.



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Franklin and St. Paul Streets

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1216 H Street, N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 4			ST. LOUIS June 1			PHILA. May 25		
Roses									
Am. Beauty, Special	15.00	to	20.00	20.00	to	25.00	17.50	to	25.00
" " Fancy and Extra	8.00	to	15.00	15.00	to	18.00	10.00	to	15.00
" " No. 1	2.00	to	6.00	5.00	to	10.00	4.00	to	8.00
Killarney, Extra	4.00	to	5.00	4.00	to	6.00	5.00	to	8.00
" Ordinary	1.00	to	3.00	2.00	to	3.00	1.00	to	4.00
Richmond, Hillingdon, Extra	4.00	to	5.00	5.00	to	6.00	5.00	to	8.00
" " Ordinary	1.00	to	3.00	3.00	to	4.00	1.00	to	4.00
Maryland, Ward, Taft, Sunburst, Extra	3.00	to	8.00	4.00	to	6.00	0.00	to	10.00
" " " " Ordinary	1.00	to	2.00	2.00	to	3.00	2.00	to	5.00
Russell, Shawyer	2.00	to	15.00	.....	to	.....	4.00	to	10.00
Carnations, Fancy	2.00	to	3.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	.75	to	1.50	.50	to	1.00	1.00	to	1.50
Cattleyas	35.00	to	40.00	40.00	to	50.00	30.00	to	50.00
Lilies, Longiflorum	2.00	to	5.00	8.00	to	10.00	3.00	to	6.00
Lily of the Valley	1.00	to	2.00	3.00	to	4.00	1.00	to	4.00
Snapdragon	1.00	to	4.00	2.00	to	4.00	2.00	to	8.00
Mignonette	1.00	to	3.00	4.00	to	5.00	2.00	to	3.00
Dasies, white and yellow	1.00	to	2.00	.25	to	1.00	.50	to	1.00
Sweet Peas	.20	to	.35	.20	to	.40	.....	to	.....
Gardenias	12.00	to	20.00	.....	to	.....	4.00	to	15.00
Adiantum	75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	10.00	to	12.50	20.00	to	25.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	25.00	to	50.00

CHICAGO

Unusual to a marked degree were the conditions Memorial week. Those who had anticipated quantities of stock were not disappointed but no one had expected such a glut of all kinds of flowers. The extreme temperature of the preceding week and the hot winds had rendered the carnations soft, and quantities of them were dumped from their boxes to the waste

(Continued on page)

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 30 1914	First Half of Week beginning June 1 1914
American Beauty, Special	15.00 to 25.00	20.00 to 25.00
" " Fancy and Extra	8.00 to 12.00	10.00 to 20.00
" " No. 1	2.00 to 6.00	2.00 to 6.00
Killarney, Extra	4.00 to 5.00	4.00 to 5.00
" Ordinary	.50 to 3.00	1.00 to 4.00
Richmond, Hillingdon, Extra	3.00 to 5.00	4.00 to 5.00
" Ordinary	.50 to 3.00	1.00 to 4.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 5.00	4.00 to 5.00
" " " " Ordinary	.50 to 3.00	1.00 to 4.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	1.00 to 1.50	.50 to 1.50

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and all Seasonable Varieties of Cut Flowers

WILLIAM F. KASTING CO.
Wholesale Florists
383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Flower Market Reports

(Continued from page 844)

pile. Even much of so-called fancy carnations, shipped out in good faith were sleepy when received and Monday's mail brought protests from hundreds of out-of-town customers. Prices on the best carnations did not stay at five cents as quoted but were gladly moved for three, and Memorial Day made a record for low prices in all kinds of stock. For the retailers the conditions were somewhat reversed. They could limit their stock, which the wholesaler could not, and the lower prices pleased their customers and made ready sales. Sunday was counted as a part of the big day and sales in the retail stores kept up well until noon. The market on Monday was the scene of a general cleaning up and barrels of waste stock were thrown out. Today (Tuesday) every bucket and vase is filled to the limit and nothing short of a carnival could work off the stock. Peonies are going the way of the rest and it is unlikely that many of them will bring express charges. An enormous crop of roses is now on and sweet peas are coming in in great quantities while the usual miscellaneous flowers add to the supply. Cape jasmine is coming from the south. There is a fair supply of orchids. Very good lilies are also in. Lilacs and other out-of-door flowers are gone.

CINCINNATI Decoration Day proved to be far different than was expected. Most of the growers kept on sending in advance reports as to the prospective cuts for that day, so that while we all hoped for a very big supply we were expecting at the best only an ordinarily good one. Cuts were so large, however, that the market could not begin to use them all. Prices fell very rapidly from good ones to buyers' prices in job lots. The glut that was left over after the day is so large that the wholesalers are almost ready to pay you to take it away. Eventually they will have to pay when a large part of it is hauled to the dump. The hot weather also put a very big crimp in the demand for flowers. All the outdoor roses and other blooms blossomed out in all their glory and the people used these instead of buying flowers from their florists. Farmers and gardeners also came in with the crops from their gardens and sold them at any figure they could get for them. As far as having stock left over is concerned most retailers suffered as well as the wholesalers. A considerable number of flowers arrived in an unsalable condition. Happily some much needed showers on Monday brought cooler weather and as soon as this glut passes away market conditions will be back to their normal point.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 30 1914	First Half of Week beginning June 1 1914
Cattleyas	15.00 to 35.00	10.00 to 35.00
Lilies, Longiflorum	2.00 to 4.00	2.00 to 5.00
Lily of the Valley	.50 to 2.00	1.00 to 2.00
Snapdragon	1.00 to 3.00	2.00 to 3.00
Mignonette	.50 to 2.00	1.00 to 2.00
Daises, white and yellow	1.00 to 2.00	1.00 to 2.00
Sweet Peas (per 100 bunches)	2.00 to 6.00	2.00 to 6.00
Gardenias	10.00 to 25.00	10.00 to 25.00
Adiantum	.50 to .75	.35 to .75
Smilax	10.00 to 16.00	10.00 to 16.00
Asparagus Plumosus, strings (per 100)	35.00 to 50.00	35.00 to 50.00
" " & Spren (100 bunches)	15.00 to 35.00	20.00 to 35.00

NEW YORK There was no noticeable advance in prices for Memorial Day in this market. The volume of flower receipts was tremendous, and then there was not the amount of carnations shipped out as has been the usual case. Carnations were especially very plentiful, selling from $1.00 to $3.00 per hundred. Last year the prices were double. Peonies arrived in lots of thousands of dozens, fine quality of the best varieties, and sold only fairly well at 25c. and 50c. per dozen. Best lily of the valley did not realize more than $20.00 per 1,000. Roses went from $5 per thousand to $5 per hundred for the best. This was the situation all along the line. There was also an enormous abundance of outdoor flowers—snowballs, spireas, etc., all of which helped to overload the market and keep the prices on other stock down. Summed up, one might say that a tremendous amount of flowers were sold, but the average prices obtained were low as compared with former years. Again the growers repeated their folly of holding back their cut in order to have heavy shipments on the holiday. Imagine, for example, holding back carnations a week in the very hot weather prevailing the early part of the week. Box after box of carnations were noticed with blooms all dried up. At present the market is still overstocked with all seasonable flowers. Poenies are overplentiful and do not clean up even at $12.50 and $15.00 per thousand. Business is very moderate, and one half of the supply would easily fill all demands, but it may be that, some of the outdoor stock being finished, and some of the growers throwing out to replant, a stiffening up of prices and a better cleanup of the daily receipts may be had.

PHILADELPHIA Not in the memory of the oldest wholesaler has there been such a redundancy of supply in the cut flower market as last week. The whole world was full of flowers, and all the country people seemed to think Philadelphia was crazy for every out-door blossom. One wholesaler said that he had been in the business for twenty-eight years and that during all those years he had never seen anything like it in the way of plethora. Every man in the wholesale centers worked five times as hard as he had ever done before in Memorial week and shipped out five times as much stock as he had ever done before, but when it came to dollars and cents there was very little to show for it over previous years. Commissions are based on high prices, and when prices go to pot the commission dealers are practically working overtime for nothing. They must increase their charges for marketing or else go broke! Up to May 25 things looked all right. A hot spell brought not only the avalanche, but it made the flowers soft so that their shipping qualities, no matter how freshly cut or how carefully packed, were impaired. And the retailers at distant points—did they have common sense or courtesy? In many cases they ordered shipments returned, causing double expressage when a telegram might have saved the situation. Isn't there such a thing as being a good business man and being a gentleman at the same time? Of course everything suffered—indoor stock as well as outdoor stock. Peony Festiva maxima that was selling for ten to twelve cents a bloom a few days before was being offered on the street Saturday—nice freshly cut blooms—twelve for a nickel. A sad story. The "surplus devil" reigned supreme.

(Continued on page)

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

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Horticultural Auctioneers.
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AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Alonzo J. Bryan, Washington, N. J.
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H. Hansen, Malden, Mass.
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Geraniums: Nutt, Ricard, Poitevine. Viaud, Jaulin, La Favorite; Cannas; Aus-3½ in., $6.00 per 100. Blue Ageratum, Howard's Star Petunias, double Alyssum, white Marguerites, German Ivy, Salvia Bonfire, Coleus Verschaffelttii, G. Bedder, Queen Victoria, Firebrand, 3 in., $5.00 per 100. Achyranthes Lindenii, Coleus (4 colors), Dusty Miller, Alternanthera (red, yellow), 2½ in., $3.00 per 100. Dracaena indivisa, extra heavy, 6 in., $40.00 per 100. Vinca variegata, 3½ in., $8.00 per 100. Cash. F. SOKOL, Worcester, Mass.

BEGONIAS

Storrs & Harrison Co., Painesville, O.
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BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

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Lord & Burnham Co., New York City.
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BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

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Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

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Chrysanthemums Rooted Cuttings.
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Chrysanthemums—50,000 rooted cuttings and plants from soil; leading market sorts. Write for prices. WM. SWAYNE, Kennett Square, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS from 5 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—best cut-flower varieties and novelties. Send your list of wants to the largest Dahlia grower in the world. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

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4,000 S. A. Nutt, 2,000 B. Poitevine, 5 cents. G. P. GRIDLEY, Wolfboro, N. H.

Geranium S. A. Nutt in bud and bloom, 3½ in. pots; good plants, 6c. Cash please. CHAS. H. GREEN, Spencer, Mass.

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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IVY

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LAURUS
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PEONIES.
Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

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PHOENIX
Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
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Anton Schultheis, College Point, L. I., N. Y.

Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS
Salvia Bonfire, fine 2-in., $2.00 per 100. Cash. J. W. MILLER, Shiremanstown, Pa.

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SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPRINKLING, IRRIGATING AND WATER SUPPLY OUTFITS

Chas. J. Jager & Co., Boston, Mass.
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STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Burnett Bros., New York City.
Pot-Grown.
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SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
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S. Bryson Ayres Co.,
Sunnyslope, Independence, Mo.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Warren Shinn, Woodbury, N. Y.

SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties; 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker City Machine Co., Richmond, Ind.
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VERMICIDES

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William Capstick, Auburndale, Mass.
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G. & C. Merriam Co., Springfield, Mass.
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WEED KILLER

Pino-Lyptol Chemical Co., New York City.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

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Welch Bros. Co., 226 Devonshire St.
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McAlpine & McDonald, Boston, Mass.
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Brooklyn

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Chicago

Peter Reinberg, 37 Randolph St.
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Michigan Cut Flower Exchange, 38 and 40 Broadway.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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Philadelphia

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E. G. Hill Co.
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New Offers In This Issue

ARAUCARIAS.
Godfrey Aschmann, Philadelphia, Pa.
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DIAMOND COLLECTION AZALEAS.
K. J. Kuyk, Ghent, Belgium.
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GLADIOLI, CALADIUMS AND TUBEROSES.
Michell's Seed House, Philadelphia, Pa.
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HYDRANGEAS AND LILY OF THE VALLEY.
Anton Schultheis, College Point, L. I., N. Y.
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"NON-PUNCTURE" AUTO TIRES.
Non Puncture Tire Factory, Dayton, Ohio
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PIGEON RAISING.
Reliable Squab Journal, Versailles, Mo.
For page see List of Advertisers.

WEDDING ACCESSORIES.
H. Bayersdorfer & Co., Philadelphia, Pa.
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In writing to Advertisers kindly mention Horticulture

PREMIER

"Non-Puncture" Auto Tires

Guaranteed 7,500 Miles Service

These tires bear the greatest known mileage guarantee, yet are sold at a price even less than tires of ordinary guarantee. This guarantee covers punctures, blow-outs and general wear. Guarantee covers 7,500 miles service against everything except abuse. These tires are intended for most severe service.

Orders have been received for these tires for use in United States Government Service.

As a SPECIAL INTRODUCTORY offer, we will allow the following prices for the next ten days.

TIRES—TUBES

	Tire	Tube
28x3	$9.20	$2.00
30x3	10.25	2.30
30x3½	13.50	2.80
32x3½	14.05	3.00
34x3½	15.25	3.20
31x4	17.00	3.25
32x4	18.00	3.30
33x4	19.50	3.40
34x4	20.10	3.60
35x4	21.00	3.80
36x4	22.00	3.90
35x4½	26.00	5.00
36x4½	27.00	5.10
37x4½	27.50	5.15
37x5	32.60	5.40

All other sizes. Non-Skids 20 per cent. extra. 5 per cent. discount if payment in full accompanies order and if two are so ordered, shipping charges will be paid by us. C. O. D. on 15 per cent. of amount of order. Our output is limited, so we suggest early ordering. We sell direct only, giving purchaser the advantage of all middlemen's profits.

NON-PUNCTURE RELINERS.

Use our famous reliners, they eliminate blow outs and 90 per cent. of punctures besides giving many thousand more miles service to each tire. When in your tires you ride without worry or tire troubles.

NON-PUNCTURE RELINERS

For all 3 inch tires	$1.95
For all 3½ inch tires	2.20
For all 4 inch tires	2.60
For all 4½ inch tires	2.75
For all 5 inch tires	2.90
For all 5½ inch tires	3.00

NON-PUNCTURE TIRE FACTORY

Dayton, Ohio

FIRES.

A three-story wooden and iron-covered storehouse at A. H. Hews & Co.'s pottery, North Cambridge, Mass., was gutted by a menacing three-alarm fire early Monday morning, June 1. Frank Fellows, a night watchman, discovered the fire shortly after 2.15 A. M. and sent in an alarm. When the firemen arrived the entire building was in flames and a third alarm was given. Several dwellings were threatened and the occupants made a hasty exit, carrying their children. The loss is estimated at $8,000.

Arlington, Mass. — The greenhouse of John Lyons on Brooks avenue was damaged by fire on the evening of May 27th. The damage amounted to about $200.

Flower Market Reports

(Continued from page 847)

ST. LOUIS Decoration Day business this year fell off somewhat. From reports gathered from some of the leading florists throughout the city, there was not the same feeling displayed as in former years, and we can attribute it only to the fact that too many out-door flowers were in this year, as the displays at the cemeteries plainly showed. The wholesalers had great piles of stock all week long and prices did not change any except only on extra quality stock and there was very little of this to be had, as the extremely hot weather hurt the quality in roses, carnations and sweet peas. Cape jasmines and gladioli were fine, so were peonies; all these were in abundance. A great deal of cheap out-door truck was sent in which were sold in baskets for grave decorations.

Obituary

Anson Wheeler.

Anson Wheeler, aged 50, died on June 1 of diabetes at his home at Nine Acre Corner, Concord Mass. Mr. Wheeler, who was born in Concord, leaves a wife, two sons and three daughters. He gained wide repute as a greenhouse farmer, having one of the largest plants in the state. He was a member of the Boston Market Farmers' Association and was prominent in town affairs.

Van Teylingen.

One of the Holland bulb salesmen has made his last visit to the American trade and he will be missed by the trade, with whom he was a general favorite. For many years Mr. Van Teylingen has made a yearly visit in the interest of Van Zanten & Co. of Hillegom, Holland, and the firm is sending out announcements of his death on May 7th, stating that they consider their loss as that of a brotherly friend as well as of an able business assistant. He leaves a wife and four children.

Tarrytown, N. Y.—Informed that the I. W. W. and other free speech advocates from New York planned to stage a demonstration on June 3, "Rockefeller's town" was active early to meet the threatened invasion.

Scores of special constables, clubbed and armed, were on duty ready for an instant call, every road into the town was watched and—crowning device—the whole of Fountain Square, the town's forum, was covered with fresh asphalt.

"There will be no free speech meeting, or any other kind of meeting in the square today," Village President Pierson said. "If any gathering is attempted we'll break it up with clubs and if that doesn't do we'll turn on the fire hose. Cold water, I guess, will bring calm."

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE NO ODOR NO POISON

POISON **KIL-WORM** POISON

Destroys Worms, Ants, &c., infesting Golf, Cricket Grounds, Parks and Lawns. Sure death to snails. Does not **injure** grass; causes the insects to come to the surface to die. (Must not come in contact with fine plants). One gallon Kil-Worm makes 50 gallons liquid when mixed with water. 1 quart, $1.00; 1 gallon, $3.00; ½ gallon, $1.75; 5 gallons, $13.50.

POISON **KIL-WEED** POISON

A scientific Weed Destroyer free from odor. An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, &c. Saves expense of several men; can be applied with an ordinary sprinkling can. One gallon Kil-Weed makes 30 to 35 gallons liquid when mixed with water. 1 quart, $0.35; ½ gallon, $0.60; 1 gallon, $1.00; 5 gallons, $4.00; 10 gallons, $7.50; 1 barrel, per gallon, $0.65.

LEMON OIL COMPANY, Dept. J

420 W. Lexington St., Baltimore, Md.

Directions on every package; write for circular

"Here is Your Answer," in WEBSTER'S NEW INTERNATIONAL

-THE MERRIAM WEBSTER

Even as you read this publication you likely question the meaning of some *new* word. A friend asks: "What makes mortar harden?" You seek the location of *Loch Katrine* or the pronunciation of *jujutsu*. What is *white coal?* This NEW CREATION answers all kinds of questions in Language, History, Biography, Fiction, Foreign Words, Trades, Arts and Sciences, *with final authority.*

400,000 Words and Phrases Defined.
6000 Illustrations.
Cost $400,000.
2700 Pages.

The only dictionary with the *new divided page*,—characterized as "A Stroke of Genius."

Write for specimen pages, illustrations, etc.

Mention this publication and receive FREE a set of pocket maps.



G. & C. MERRIAM CO., Springfield, Mass.

RAISE PIGEONS

THEY PAY DOLLARS WHILE CHICKENS PAY CENTS

The young, 20 to 25 days old, sell for 40 to 60 cents each (according to the season). The city markets are always clamoring for them.

Each pair of Pigeons will raise 18 to 22 young a year.

They will clear you, above all expenses, $5.00 a year per pair. They breed the entire year. Twenty minutes daily will care for 100 pairs.

Always penned up out of the way. Very small space required

All this is fully explained in this month's issue of our Journal; send for it; price 10 cents.

Reliable Squab Journal, Versailles, Mo.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.



SHEEP MANURE

A Natural Product

100 lbs. $2.00

WM. ELLIOTT & SONS

42 Vesey St., New York

IMP.

SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses, Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL. $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO, BOSTON

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - BEVERLY, MASS.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK

When writing to advertisers kindly mention HORTICULTURE.

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide.

W. N. Craig writes in Florists' Review (March 5th, 1914): "Scale on greenhouse plants is not easy to get rid of, as doses which are sufficiently strong to kill the scale will usually disfigure the plants at the same time. I have found APHINE a first-class remedy for scale, and if you will apply it according to directions you will kill and loosen the scales, although they will not fall off, as will some other pests."

It will only require the hose to wash off dead scale.

A remedy that is efficient in destroying scale, will destroy green, black, white fly, red spider, thrips and mealy bug.

$1.00 per quart—$2.50 per gallon.

FUNGINE will destroy mildew, rust and bench fungi.

75c per quart—$2.00 per gallon.

VERMINE will destroy root maggots, eel wire and cut worms in the soil.

$1.00 per quart—$3.00 per gallon.

SCALINE will destroy San Jose and all hard scale and red spider on fruit and ornamental trees and bushes.

$1.50 per Gal—10 Gals. $10.—50 Gals. $37.50

NIKOTIANA—a 12% nicotine for fumigating over small lamps or by painting on steam pipes.

$1.50 per quart—$4.50 per gallon.

For Sale by Seedsmen.

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

Canadian Agents: Dupuy & Ferguson, Montreal, Que.; Steele, Briggs Seed Co., Ltd., Toronto, Ont.

British Distributors: British and American Fertilizing Co., Liverpool, Eng.

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N.Y.

Est. 1765 FOR "POT LUCK" USE Inc. 1904

Pot Makers for a Century and a Half **HEWS STANDARD POTS** World's Largest Manufacturers

AND RED EARTHENWARE SPECIALTIES

Write for Catalogue and Discounts **A. H. HEWS & CO., Inc., Cambridge, Mass.** Warehouses: CAMBRIDGE, MASS. LONG ISLAND CITY, N. Y.

GREENHOUSES BUILDING OR CONTEMPLATED.

Pocasset, R. I.—Olney Williams, two houses.

Wheeling, W. Va.—Davidson Bros., one house.

Catonsville, Md.—John B. Harmon, one house.

La Fayette, Ill.—Irvin Ingels, Foley house 27 x 200.

Fort Worth, Tex.—John E. McAdams, house 27 x 200.

West Rindge, N. H. — Ware Farm, range of houses.

Enosburg Falls, Vt.—J. H. Mears, range of houses.

Far Rockaway, N. Y.—Harry Seaman, house 25 x 100.

Baldwin, N. Y.—Geo. T. Schunemann, house 65 x 300.

Chicago, Ill.—E. Clody, Clark & Byron streets, addition.

Madison, N. J.—Edward Behere, additions and alterations.

Flushing, N. Y.—John Chiotos, Burling avenue, one house.

Pittsburgh, Pa.—Henry Menschke, Castle Shannon, three houses.

Schenectady, N. Y.—G. E. Kopper, 126 Jay street, house 40 x 100.

East Marseilles, Ill.—Marseilles Greenhouse Company, two houses.

Milwaukee, Wis.—George Gruenewald, Cedarburg road, two 300 ft. houses.

Arlington, Del. — Frank and Paul Way, Elwood Cox Farm, range of 400 ft. houses.

Dallas, Tex.—The Brown-Dawson Company, 4624 Bryan street, additions and alterations.

Kansas City, Mo.—W. J. Barnes, 38th street and Euclid avenue, additions and alterations.

PATENTS GRANTED.

1,098,032. Hedge-Trimmer. Ellis L. Fox, Audubon, Pa.

1,098,221. Implement for Replanting and Transplanting Small Plants. David S. Boyles, Walnut Cove, N. C.

Cedarhurst, N. Y.—Albert Pearson has taken the greenhouses formerly conducted by H. Eitzholtz near Woodmere.

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Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

KING GREENHOUSES

Are supplied in 3 different Iron Frame Types; also in the Semi Iron or Pipe Frame styles, so we can offer you a strong, practical Sunny House at the price you can afford to pay.
Write us today—just tell us what you want and we will do the rest.

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

FOLEY
Builds Good Greenhouses
TRY HIM.
THE FOLEY GREENHOUSE MFG. CO.
3275 West 31st Street
CHICAGO, Ill.

FOR SALE

FOR SALE

Lot of land, 248 feet by 106 feet, with 3 iron construction green houses 175 x 20 feet each, potting shed, some frames in fine condition. Located on three streets, trolley passing the front, in a town of 40,000 inhabitants, close to New York. Excellent place suitable either for local trade where all the products could be readily sold or for wholesale shipping to New York or Philadelphia. Low price, terms to suit purchaser. Address Chance, care HORTICULTURE.

FOR SALE—30,000 sq. ft. of Greenhouses; Extra Large 6-Room House; Large Barn and Wagon Shed; Packing House with Cement Tanks, Pumping Engine and Engine House, also Boiler House; 4 1-50 acres of the best land, with the privilege of 30 acres more. R. R. switch on premises. Located 30 miles from New York on Long Island; 1 mile to two R. R. stations. Address "W. B., Box 85, Lakehurst, N. J.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

SITUATIONS WANTED

SITUATION WANTED — As Gardenia grower, 15 years' experience; references. JOHN BROWN, Greenbrook Rd., Bound Brook, N. J.

SITUATION WANTED—As gardener. Life experience, both inside and out, in all branches. Best of references. Married. Scotch. Address "D. M.," care of HORTICULTURE.

SITUATION WANTED—Young man, assistant gardener, well trained. Near Boston. Best references. Write "S. F.," care HORTICULTURE.

PEIRCE PAPER FLOWER POT

Superior to ANY OTHER pot for shipping purposes.

Saves weight and space for the shipper.

Best of protection against damage by frost.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in. @	$6.00	500	4	in. @	$4.50
1500	2	" "	4.88	456	4½	" "	5.24
1500	2¼	" "	5.25	320	5	" "	4.51
1500	2½	" "	6.00	210	5½	" "	3.78
1000	3	" "	5.00	144	6	" "	3.16
800	3½	" "	5.80	120	7	" "	4.20
				60	8	" "	3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

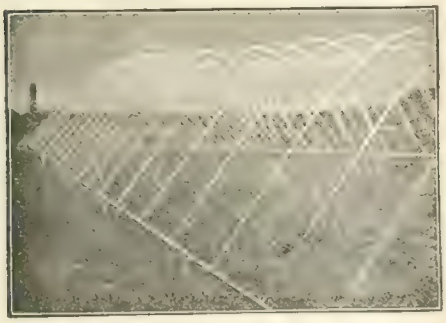
W. H. ERNEST
28th & M Sts. Washington, D. C.



DREER'S
Florist Specialties,
New Brand, New Style,
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

SAVE YOUR LAWNS AND GARDENS



Sprinkling, Irrigation and Water Supply Outfits

Country Estates a Specialty

Write us of your needs and conditions and we will tell you what we can do for you.

Charles J. Jager Co.

Consulting and Contracting Engineers

13-15 Custom House St., BOSTON, MASS.

and

33 Canal St., PROVIDENCE, R. I.

Greenhouse Shading

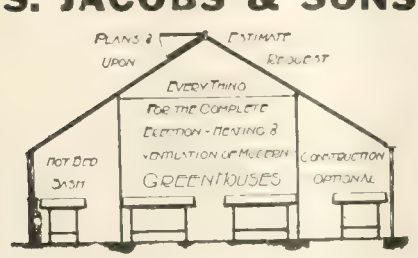
AFTER many years of experience in greenhouse work with Lord & Burnham Company, in the glazing and painting department, I am convinced that what is needed most is a good shading, and I am pleased to tell you that I have the real thing which you are all looking for.

My shading is beneficial to the painted wood, as it contains nothing but pure linseed oil; it is also beneficial to the glass. You will be surprised by the brilliancy left in the glass when the shading is removed. It is very easily applied by spray or a soft brush; I prefer the brush.

Made up in gallon cans. Colors; light green, blue and pure white. If you will give it a fair trial I am sure you will agree that it has proven its worth.

E. A. LIPPMAN, MORRISTOWN, N. J.

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

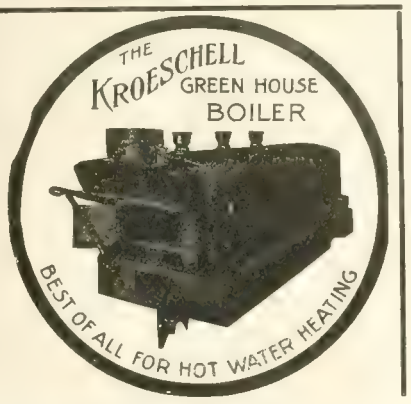
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



The Campbell Automatic Irrigation Sprinkler

Solves the "Irrigation Problem" and affords rain when you want it, and like you want it, at the minimum cost of installation and operation. Sample postpaid $3.00. Money back if you want it. Descriptive literature on request.

J. P. CAMPBELL, Jacksonville, Fla.



Kroeschell Bros. Co.

466 W. Erie Street CHICAGO



"It means Money to your pocket to let us quote you on Ventilating apparatus and Greenhouse fittings. Send for catalogue today."

ADVANCE CO.
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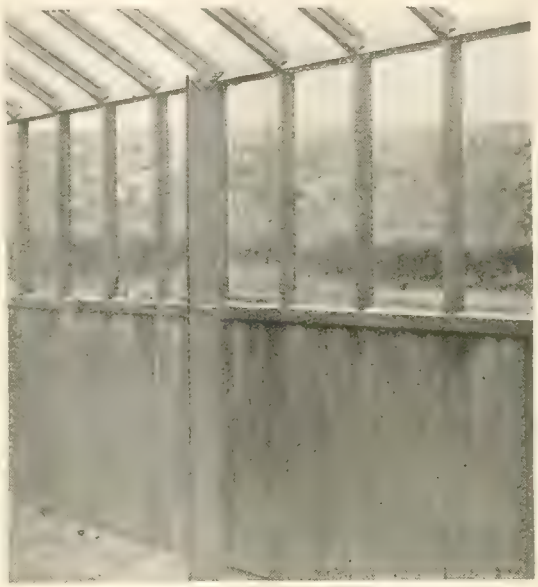
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Vol. XIX
No. 24
JUNE 13,
1914

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

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GARDEN

Bouvardias

Nice stock out of 2 inch or 2½ inch pots planted out now will give the plants for benching in September. Allow about 12 inches of room each way, making use of a good mellow loam for planting. Flowers are not wanted on them at this season and the shoots should be kept pinched back whenever they run away and show an inclination to flower. Keep the ground well cultivated about them and if the weather becomes dry keep them watered and their growth will not be checked. There is no more to their culture than other plants, such as roses or carnations, require and you can have them in flower from October on to the last of March. These flowers come in very handy during the winter. The only thing they want is good rich soil and a light house, where the temperature can be kept at about 60 degrees during the night.

Care of Newly Planted Chrysanthemums

While the chrysanthemum is considered quite easy to grow, it will require good attention from now and until the flowers are cut. In watering the benches it is a better plan to water only just around the plants until they have made new roots when the whole bed can be watered. On bright days give them a good syringing getting well under the foliage. Do not allow the benches to become overrun with weeds. Keep the soil well cultivated between the plants which will help to keep the compost sweet while heavy syringing is needed. Chrysanthemums are air-loving plants so do not coddle them at all, but give them all the ventilation possible. Do not leave them too long without supports as the syringing is very liable to knock them about.

Cyclamen

An important plant that is often neglected at this busy season. In the coming three months they will either make good plants or be failures. Be certain that they do not become potbound, or chances of their doing well are much lessened. Cyclamen will now be ready to go into 4-inch pots and there can be no better place for them between now and the end of September than cold-frames, where the plants will not be kept too close to the light. The glass should be shaded by lath coverings which also keep the plants cooler. Keep the sashes open, both top and bottom all this time. This is easily arranged by making a temporary wooden framework a few inches high and standing the sashes on this. This allows a current of fresh air to strike the plants constantly.

Outdoor Roses

Some of our best roses always suffer more or less from mildew at about this time, notably moss roses, some varieties of the hybrid perpetual class and nearly all of the multiflora section, of which Crimson Rambler is the most striking example. However, it can be kept in check to a considerable extent by a timely use of such remedies as ammoniacal copper solution, grapedust and powdered sulphur, in mild but frequent applications. The June bug is one of the early callers and a marauder that defies the common tactics of the rose grower. Dustings and sprayings of deadly decoctions are of little avail in its case. Gathering the bugs by hand is the best way to bring about a noticeable scarcity of June bugs. Roses out of doors are hardly ever troubled by red spider, if well attended to, but when once infested it will be found that the evil is much harder to fight in the open than under glass. Syringing, forceful and often, in any event a great help to roses in hot and dry weather, is the remedy here as well as indoors.

Summer Treatment of Potted Roses

I have found that potted roses intended for next winter's forcing or for the plant trade in the spring, do better if kept constantly in the greenhouse during the hottest part of summer than they would anywhere out of doors. There is no doubt that roses grown in pots all summer are much easier to manage and give greater satisfaction when forced the following winter than roses grown in the open field and potted up in November. These make a steady and most rapid growth up until about the middle or end of August. By that time they have undergone the last of the many shiftings from pot to pot that are necessary to keep them in good shape, and at a rapid headway. When growing fast they need a deal of water and a sprinkling once or twice a day. The essence of advancement in any trade lies in the production of a better article from year to year, not in the searching for or finding of easy methods alone, especially not when this tends to decrease the commercial value of the output.

Sowing Late Annuals

Now and up until the last week in this month is a good time to sow a number of annuals for cutting. These are all suitable to sow: Clarkias, candytufts, calendulas, coreopsis, larkspurs, lupines, Shirley poppies, etc. The only trouble is to get the seed to come up good, on account of the dry weather, so it is well to sow where they can be handy for water. Use the hoe freely between the rows.

Mr. Farrell's next notes will cover the following: Calceolarias; Eucharis amazonica; Ferns in Frames During the Summer; Orchids; Pruning Shrubs; Watering.

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Among the master spirits

Three events of national importance and interest are yet on the program for June. They are, the annual gatherings of the American Seed Trade Association at Washington, D. C., June 23, 24 and 25; the American Association of Nurserymen at Cleveland, Ohio, June 24, 25 and 26; the American Sweet Pea Society, New York City, June 27 and 28. The programs of the seed trade and sweet pea meetings we have already published and in this issue we now present the program which has been prepared for the nurserymen. As usual, it provides a veritable feast of good things from which no progressive nurseryman can afford to absent himself. If you are interested in the nursery trade don't fail to read this prospectus through carefully and we believe you will heartily agree with us that it is well worth the cost of a trip to Cleveland. We have always considered the privilege of a visit to Storrs & Harrison's at the neighboring town of Painesville and an hour or two in company of Robert George alone worth the trip to Cleveland. The nurserymen of today are well skilled in the art of interweaving relaxation and amusement with serious business and we are almost envious as we think of the good time ahead in Cleveland.

"Special days" as show promoters

Those of our readers who took especial interest in the recent Spring Flower Show at the Grand Central Palace, New York City, may recall that one day in the week was set apart on the initiative of the Brooklyn florists, as Brooklyn Day and that as a consequence the Brooklyn press whooped it up heartily and the Brooklyn people and the Borough officials turned out with much enthusiasm on the afternoon and evening of that day. Anyone who attended the show on Brooklyn Day was given plenty of reason to realize most emphatically that Brooklyn is "on the map." The report of A. L. Miller (who was a prime mover in the affair), before the New York Florists' Club last Monday night, was received with much approbation and favorable comment and the suggestion that other places, such as Jersey City, Newark, etc., might well follow the example of Brooklyn at the next show, was heartily applauded. The idea has so much to commend it that we feel called upon to draw attention to it in our editorial notes with a view of possibly awakening a wider interest in this most excellent means of publicity and increased popular support for flower shows, in New York or elsewhere. Its availability as a stimulation for flower shows, in the direction in which flower shows are proverbially weak, is easily apparent. But, if you are disposed to try it out, remember that you must have a few hustlers who will take off their coats and work unselfishly, with absolutely no thought of personal or trade advantage.

The regal family among shrubs

A most valuable contribution to gardening knowledge is the extract which we publish this week, from the Arnold Arboretum of Popular Information on the hardy evergreen rhododendrons. The evergreen rhododendrons are indisputably the regal family among garden shrubbery wherever climate and soil are adapted to their culture. As is commonly known, they will not thrive in limestone soil but we believe, nevertheless, that they might be much more generally cultivated than is the case. Much of the prevalent ideas concerning the unreliability of rhododendrons as hardy garden subjects is due to the planting of tender varieties or of hardy varieties grafted on tender stock, enormous quantities of which are imported from Europe every year for forcing purposes, for auction sales or department stores. The list of varieties given in the Bulletin might safely be enlarged by the addition of quite a number of equally trustworthy varieties, but it is a good reliable one and the sorts mentioned are all in perfect form this season in the neighborhood of Boston after a winter of great severity, the thermometer registering at times fifteen to eighteen degrees below zero. The copious late rains of last fall are believed to have been a great help to these plants. Some shade from the rays of the morning and noon sun is a requisite for the rhododendron and a generous mulch of leaves every fall, which is allowed to remain and decay, is another requirement. We think a mistake was made in omitting from the Arboretum list that old champion Caractacus. For hardiness, rapid growth and profusion of bloom it has no superior thus far, and if we were to select but three, this would be one of them.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Fires

With the prices of the roses down, so that they are cheap, it is often a case for some thinking whether or not to give the houses the heat they may require early in the morning on some days when it is real chilly. We would advise keeping the temperatures up to the mark, for even though the cost of production may thus be increased the returns will be greater in the long run. There is such a thing as working up a strain of roses that will produce flowers of a better quality, and in greater numbers. To do this will require several years good care and constant attention. Here is where all the good care points will count, no matter how small the little things are. We would not close the ventilators up tight, thus to save a little coal,—we would rather keep them open, a little at least, and give the houses the amount of heat they may require. To help keep mildew at bay we would not allow the thermometers to drop below 64 degrees F. as the days are warm, even hot, and too great a difference between the day and night temperatures is not good for the plants, to say the least. Where steam is installed it will take but little coal and trouble to keep a pipe going in each house, and that will be all that is necessary.

Damping Down

Damping down in the rose houses? We never do it, although many will claim it must be done. We tried damping down twice a day through several houses one time and we could not get rid of blackspot through this section. We gave it up and never attempted it again. It is all right in its place, and when tender crops are forced they could not do without it. Roses, we find, will only get soft and will be more subject to disease if this system is used. Where too much concrete has been used through the houses, and it gets very hot, a coat of ashes over the walks will help keep the houses cool and at the same time keep the atmosphere damp enough to encourage plant growth, instead of hindering the same. Keep the newly planted plants wet enough at the roots, taking care of course not to overdo it, and they will require very little moisture in the air to thrive good.

Red Spider

Keep after this pest all along, and see that it does not have a chance to get at the young plants at all. Syringe as often as possible, taking care not to get the benches too wet for this would encourage plant growth, while the roots would sit still. Get the roots there first, and when these are well formed, water and feed will make the plants move. When there are no roots—then of course the growth will not be very prolific, for there will be nothing to transform manure, water and chemicals into leaves, stems and flowers, which are so badly needed on the plants.

Fumigating

Growers who have kept their houses real clean and free from insects of all kinds will have no occasion to worry because they will not be able to fumigate regularly. Where there is fly to contend with, however, the case is different, and should it be impossible to fumigate because of heat, use some good spray and see that all parts of the plants are reached.

It is not necessary to drench the plants, for it is far better to merely fog them; the spray is then equally effective and far less harmful to the plants, also only about one-third of the amount used the other way will be required.

Liming

Where the plants are showing the least traces of soft growth, and a weak appearance all the way around, a light dose of lime will be very beneficial. This will also help dissolve all the food that may be in the soil, and the plants will then make use of it, allowing little if any to go to waste.

Do not use too much lime at a time, and do not use ground limestone for it is far too slow in action. Use only quick burnt lime that has been air slacked, as that will give you immediate results and that is what we not only want, but must have in our business.

A NEW VOLUME OF HORTICULTURE

BEGINS JULY 1

¶ That will be a good time for new subscribers to get in line. Old subscribers can confer a favor on their friends, as well as on "Horticulture" by recommending this paper. Once a subscriber always a subscriber is usually applicable to those who read "Horticulture," as our office records show. If not already a member of "Horticulture's" rapidly growing family, you cannot make better use of a dollar, than by starting in now.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

THE CONVENTION GARDEN.

The open air garden of the Boston S. A. F. Convention to be held in August, now bids fair to being the greatest event of its kind ever held in this country. The late spring and a rather slow response on the part of the growers made the outlook somewhat dubious at first, but such a generous response has been made during the past week from the active work of the Executive and Garden Committees, that a very large portion of the garden—nearly 30,000 square feet—has already been planted. Deputy Park Commissioner Shea, who is chairman of the Garden Committee, ably assisted by the other members, Patrick Welch, John K. M. L. Farquhar, Thomas Roland, E. Allan Peirce, Wm. J. Kennedy, and Wm. J. Stewart, have done energetic work and a great success is assured. However, more exhibits are needed yet to bring it up to the standard hoped for. It is a great mistake not to be represented, as the occasion will be one long remembered in Horticulture and productive of great results to those who participate, as it is estimated that over 500,000 people will view the garden during the summer. The time is growing short and those who have not already taken space at the small cost required, should do so at once. Many fine plots from $10 and up for the season are still available. This includes all costs of planting, preparation, and maintenance. All goods should be shipped to James B. Shea, Chairman Convention Garden, Back Bay Fens, Boston, Mass. For particulars, address James B. Shea, 33 Beacon Street, Boston.

Among those who have already taken large spaces are: Robert Craig, Inc., Knight & Struck, Arthur Cowee, A. H. Hews & Co., Bidwell & Fobes, A. T. Boddington, A. N. Pierson, Peter Henderson & Co., F. W. Fletcher & Co., R. & J. Farquhar & Co., John Lewis Childs, William Tricker, W. A. Manda, Henry A. Dreer, Carter's Tested Seeds Inc., James Vick's Sons, E. E. Stewart, Samuel J. Goddard, B. Hammond Tracy, Mt. Desert Nurseries, Harry Quint, The Conard & Jones Co., Henry R. Comley, W. W. Edgar Co. and William Sim.

BOSTON CONVENTION HOTELS.

Boston is noted as a great convention city, and it is anticipated that the 1914 S. A. F. Convention will pull out the strength of the society. From all over the country letters are coming in from the members, announcing their intention of attending this convention.

The Hotel Committee has made excellent arrangements and, with but few exceptions, can hold reservations until August 15th. It will be best to write direct to the hotel for reservations, but the Committee would suggest intending visitors sending duplicate announcements to the office of General Secretary, 120 Boylston street, Boston, Room 702, as a record, as it is the desire to help members in every way. Besides the hotels below listed there are a number of other excellent family hotels in the vicinity of the garden and hall and innumerable first-class furnished rooming houses and reasonable priced restaurants.

People intending staying at Back Bay hotels (these are designated by a *) or looking for furnished rooms, should leave trains via N. Y., N. H. & H. R. R. and Boston & Albany R. R. at the Back Bay and Huntington Avenue stations of those roads, and also have their baggage checked accordingly. For the down-town hotels the South Terminal Station will be equally convenient. Patrick Welch, 226 Devonshire street, Boston, is chairman of the Hotel Committee.

List of Hotels.

The Copley Plaza, Copley Square. Selected by the Executive Board as Official Headquarters. One block from the Back Bay and Huntington Avenue R. R. Stations (250 rooms.)

With bath, one person, $3.00, $3.50, $4.00, two persons, $5.00, $6.00, $8.00 per day.

Copley Square Hotel (250 persons), 49 Huntington Ave., close to Exhibition Hall. Single room, with bath, $1.50 to $3.00 per day; $1.00 per day additional for two persons in one room.

*Hotel Lenox (150 rooms), Boylston and Exeter Sts. (Close to Hall, ten minutes to Garden.)

Single room, $1.50, $2.50; with bath, $2.50, $3.50 per day. Double room, $2.50, $3.00; with bath, $3.50, $5.00.

*Hotel Nottingham (75 persons), 25 Huntington Ave. (Close to Hall, ten minutes to Garden.)

Room, one person, $2.00, $2.50, with bath, $3.50, $4.50, $5.00 per day. Each additional person in room $1.00 day extra.

Young's Hotel (50 rooms), Court Square (Twenty minutes from Garden and Hall.)

With bath, $2.50 to $6.50 per day; without bath, $1.50 to $4.50 per day.

Hotel Bellevue (25 rooms), 21 Beacon St (Half hour from Garden and Hall.)

Without bath, $2 to $3.50 per day; with bath, $3.50 to $6.50 per day.

New American House (150 people), Hanover St. (Half hour from Garden and Hall.)

With bath, $2 to $4.50 per day; without bath, $1 to $2.50 per day.

*Hotel Somerset (250 people), Commonwealth Ave. (Close to the Convention Garden.)

With bath, $3 to $4 per day, without bath, $2.50 to $3.50 per day.

*Hotel Thorndike, Boylston St. (Fifteen minutes from Garden and Hall.)

Without bath, one person, $1.50 to $2.50 per day; with bath, $2 to $4 per day.

Hotel Touraine (25 rooms), Tremont and Boylston Sts. (Fifteen minutes from Garden and Hall.)

Without bath, $2.50 to $4 per day; with bath, $3 to $6.50 per day.

Adams House (50 rooms), 553 Washington St. (Fifteen minutes from Garden and Hall. Shopping district.)

Without bath, $1.50 to $4 per day; with bath, $2.50 to $5 per day.

Parker House (50 rooms), School and Tremont Sts. (Twenty minutes from Garden and Hall. Business district.)

With bath, $2.50 to $4.50 per day; without bath, $1.50 to $3 per day.

Hotel Essex, near South Station. (Forty-five minutes to Garden and Hall. Poor connections.)

With bath, $2.50 per day and upwards; without bath, $1.50 per day and upwards.

*Hotel Brunswick (150 rooms). Ten minutes to Garden and Hall.

Without bath, $1.50 per day and upwards; rooms with baths, $2.50 per day; when occupied by two persons, $1 per day extra.

Hurlburt's Hotel, Washington St. (Twenty minutes to Garden and Hall. Business and shopping district.)

Without bath, $1 to $2.50 per day; with bath, $2 to $3 per day.

*Westminster Hotel (30 rooms), Copley Sq. (Ten minutes to Garden and Hall.)

Room and bath, $1.50; two-bed rooms and bath, four in rooms, $2.

CLUB AND SOCIETY NOTES.

H. A. Bunyard will lecture before the Michigan Garden Club at Detroit, about June 24, with a fine set of stereopticon views of herbaceous garden plants, etc.

Harry A. Bunyard lectured before the Staten Island Garden Club, at Dongan Hills, L. I., N. Y., on Saturday afternoon, June 6. His subject was a broad one—hardy perennials, sweet peas and rhododendrons—and the sixty laides who made up his audience were appreciatively demonstrative.

At the Chicago Florists' Club meeting, June 4th, M. Barker, chairman of the Peony Committee, announced that owing to the extreme warm weather the Peony Show would be held June 9th and 10th in the Art Institute, instead of June 12th and 13th as originally planned. The Transportation Committee made its report on rates, etc., for the trip to the Boston S. A. F. Convention, via Lake Shore R. R. The Picnic and Sports Committee were instructed to make arrangements for the regular yearly picnic. Poehlmann Bros. exhibited some very nice carnations. J. B. FOLEY, Secy.

The schedule for the annual rose show of the Nassau County (N. Y.) Horticultural Society has been prepared. The exhibition is to be held at the Nassau Country Club on June 16, at 2.30 P. M. Thirty classes are provided for, among them ten for roses, ten for other outdoor flowers, six for vegetables, three for fruit and a class for table decorations, which will be a feature. A. G. Hodenpyl offers a cash prize for a collection of 12 kinds of vegetables. Among the prominent exhibitors will be W. V. Hester, Herbert L. Pratt, W. E. Kimball, Mrs. F. S. Smithers, A. G. Hodenpyl and Mrs. B. Stern.

At the meeting of the New Bedford Horticultural Society, held June 2, dates were fixed for the June shows as follows: Peony show on the 17th and the rose show on the 24th. Additional prizes amounting to $50 were received from Chase Brothers Nurseries. These exhibitions are free to the public. Premiums were offered in both the amateur and professional classes for the person making the most successful exhibits at the regular meetings of the society. The speaker of the evening was Thomas J. Grey, the veteran seedsman of Boston, who entertained the members with an interesting recital of his experiences in his trip to Minneapolis to attend the annual meeting of the Society of American Florists.

CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF NURSERYMEN.

Program for the Annual Convention, at The Hollenden, Cleveland, Ohio.

Wednesday, June 24, 1914, 9:30 A. M.—Invocation: Rev. C. S. Harrison, York, Nebraska; Address of Welcome, Hon. Newton D. Baker, Mayor of Cleveland. Response, J. W. Hill, Des Moines, Iowa. President's Address, J. B. Pilkington, Portland, Oregon. Report of Secretary, John Hall, Rochester, N. Y. Report of Treasurer, Peter Youngers, Geneva, Neb.

Committees—Entertainment, W. B. Cole, Painesville, O.; Legislative, East of Mississippi River, Wm. Pitkin, Rochester, N. Y.; West of Mississippi River, Peter Youngers, Geneva, Neb. Tariff, J. McHutchison, New York; Transportation, C. M. Sizemore, Louisiana, Mo.; Co-operation with Entomologists, L. A. Berckmans, Augusta, Georgia; Root Gall, E. A. Smith, Lake City, Minn.

Paper, "The Mission of Beauty," C. S. Harrison, Harrison's Select Nursery, York, Neb.

Wednesday Afternoon, 2 o'clock—"Some Reminiscences," Ethan Allen Chase, Riverside, California.

"Pecans for Profit," W. C. Reed, Vincennes, Indiana.

Uniform Legislation (Report of Committee), William Pitkin, Secretary to Committee.

Discussion—Prof. J. G. Sanders, State Entomoligist, Madison, Wis.; Prof. E. L. Worsham, State Entomologist, Atlanta, Ga.

"Roses." Illustrated with Lantern Slides. Robert Pyle, Pres. The Conard & Jones Co., West Grove, Pa.

"Ohio Nurseries." Illustrated with Lantern Slides. N. E. Shaw, Ohio State Inspector, Columbus.

Wednesday Evening at 7.30—Meeting of American Nurserymen's Protective Association. Thomas B. Meehan, secretary.

At 8.30—Meeting of American Retail Nurserymen's Protective Association. Guy A. Bryant, secretary.

Thursday Morning, 9 o'clock—Report of State Vice-Presidents.

"Competition." John H. Dayton, Sec'y Storrs & Harrison Co., Painesville, Ohio.

"Water." Jim Parker Tecumseh, Okla.

"Trade Conditions in the Dominion." F. Hogg, Toronto, Ontario.

"How to Secure a Uniform and Correct System of Nomenclature in Nurserymen's Catalogs." Prof. E. R. Lake, U. S. Pomologist, Department of Agriculture, Washington, D. C.

"Where are Our Trees Going?" Jefferson Thomas, Pres. Thomas Publicity Service, Jacksonville, Florida.

"Fitting Trees to Climate and Soil." Henry Hicks, Hicks Nurseries, Westbury, Long Island, N. Y.

Friday Morning, 9 o'clock—"What Can the Nursery Interests do to Help Solve Some of the Problems of a Commercial Nature that Confront the Producers of Orchard Products?" George C. Roeding, Pres. Fancher Creek Nurseries, Fresno, California.

"Problems of Marketing our Products." J. R. Mayhew, Pres. Waxahachie Nursery Co., Waxahachie, Texas.

(Subject not named.) J. W. Hill, Pres. Des Moines Nursery Co., Des Moines, Iowa.

Entertainment — The arrangements include an automobile ride on Thursday afternoon through the parks and boulevards of the city, after which light refreshments will be served at Shaker Lake. On the evening of Thursday, also, there will be a boat ride on Lake Erie on steamer State of Ohio, from 8.30 to 10.30. The ladies will be specially provided for in the matter of afternoon entertainment features.

Exhibits—The Committee on Exhibits will endeavor as far as possible to find a place for all exhibits that will be of interest to the nurserymen or visiting delegates. As the space for exhibits will be free to the exhibitor, he is expected to install his exhibit and take charge of it. We have four large rooms assigned us by the hotel management, which the committee think will be ample space if not, more space will be available. Implements and machinery will have to be crated or taken apart so they will pass through an ordinary door, there being no freight doors. Application for this space should be made by exhibitor to any member of the committee, namely: T. B. West, Perry, Ohio; Thomas B. Meehan, Dresher, Pa.; W. N. Scarff, New Carlisle, Ohio; Edward George, Painesville, Ohio.

FLORISTS' CLUB OF WASHINGTON.

That the smoker tendered by President George H. Cooke to the members and guests of the Florists' Club of Washington was a success was readily evident from the way every one entered into the spirit of the evening and did his share to make it a most enjoyable one. While the smoker was held in connection with the club's regular meeting the latter was made as short as possible. The members then adjourned to the grotto where a buffet luncheon was served. It seems that some of the cigars which were passed around were loaded and the occasional flashes of red and blue fire created considerable merriment. Several numbers were played by the orchestra, the florists joining in the chorus. Others gave recitations and songs. They were putting out the street lights when the last of the florists wended his way homeward. A queer thing about the meeting was the lack of speakers; no one seemed willing to take a chance of being declared an orator and the toastmaster was hard put to find someone to start the ball going. William F. Gude gave a very short talk on organization and co-operation, someone else said "Them's my sentiments" and seconded the motion, and when it came George Cooke's time to speak he would rather sing a song, and sing a song he did.

Present at the meeting was Martin Witt, a grower of Itzehoe, Holstein, who is visiting his sons, members of the club.

A vote of thanks was extended to Charles C. Stevens, who acted as toastmaster, and to others who, although not members of the club, did so much to make the evening a memorable one.

AMERICAN ROSE SOCIETY.

The members of the American Rose Society are invited as a body, or as many as can conveniently do so, to visit Elizabeth Park Rose Garden, on June 19, to meet at 11 a. m. in the Union Station, Hartford, Conn. Programme will be to take lunch there, then go out to the Park. The roses will be in good condition at that time. Alex. Cumming, Chairman of the American Rose Society's Rose Garden Committee reports back that at this writing everything looks most inviting. Not only the members of the American Rose Society are invited, but any one who takes an interest in roses.

The affiliation effort of recent months has resulted in a membership of some 300 persons. Wallace R. Pierson, President of the American Rose Society says—"give the matter all the publicity possible and invite any rose lover to come with us."

BENJAMIN HAMMOND, Sec'y.
Beacon, N. Y.

NEW YORK FLORISTS' CLUB.

The last meeting for the season was unusually well attended on Monday night, June 8. Reports of various committees constituted the greater part of the business transacted. A. L. Miller made a report as a Brooklynite on the success of Brooklyn Day at the recent spring show, March 24. A goodly sum of money was collected among the Brooklyn florists for the event and was spent in publicity work which the Brooklyn newspapers and local authorities had enthusiastically seconded, and another, even greater, Brooklyn Day is planned for next year's show. Mr. Totty made approving remarks on the subject and suggested that other neighboring cities and communities should be encouraged to emulate Brooklyn's good example. It was announced that about $4,000 had already been subscribed to the guarantee fund for next year's show and $4,000 worth of exhibition space sold.

F. H. Traendly recommended for the Transportation Committee that the official route to the Boston Convention be via Eastern Steamship Company's outside line, leaving New York 5 P. M., Monday, August 17, and arriving in Boston 8 A. M., Tuesday. The recommendation was unanimously adopted and an appropriation of $100 was made for the use of the committee. 100 staterooms are reserved for the New York party until ten days before sailing.

W. E. Marshall, reporting for the Outing Committee, said that Glen Island had been selected for this year's outing on July 1. Tickets, $3.50 for gentlemen, $2.50 for ladies, $2.00 for boys and girls 12 to 16 years, $1.00 for children under 12. No effort will be spared for the comfort and enjoyment of the picnickers.

J. Harrison Dick, J. B. Deamud and Mr. Losey, recently elected members, were called upon for speeches and responded acceptably. Wm. Plumb made an encouraging report on progress in the horticultural department of the Panama-Pacific Exposition. P. W. Popp made an exhibit of Salvia Greggi and Schizanthus Bridal Veil. Resolutions on the death of J. F. Slimon were adopted as follows:

The New York Florists' Club desires to record—with sincerest sympathy for his bereaved family—the passing on of its beloved fellow member, Jas. F. Simon, and takes this opportunity of expressing its loss and sorrow. Mr. Simon was universally esteemed as a gentleman of unsullied character and enjoyed the respect and affection of all who intimately knew him. His faithful attention to his business, his recognized ability, his devotion to his family and his never-failing courtesy were characteristics known to all with whom he was associated.

Be it resolved, that this tribute to his memory be recorded on the minutes of the Club and a copy of these resolutions sent to his family.

DATES OF BOSTON SHOWS.

The rhododendron show will be held Saturday, June 13, and the day following. The peony show will be held June 20 and 21, and the rose and strawberry show, June 27 and 28.

AMERICAN PEONY SOCIETY.

A very creditable exhibit was staged by the American Peony Society, in cooperation with the Horticultural Society of Chicago and the Chicago Florists' Club, at The Art Institute, June 9 and 10. The greater part of the flowers were shown by the three local firms, Peterson's Nurseries, W. W. Barnard Co. and Vaughan's Seed Store. B. H. Farr, from Wyomissing, Pa.; E. A. Reeves, Cleveland, O., and A. P. Saunders, Clinton, N. Y., came, bringing their exhibits with them, and the flowers came through in excellent condition, notwithstanding the extreme weather.

The fifty blooms of Mons. Jules Elie sent by Martin Kohankie from Painesville, O., won first prize, and were by far the largest blooms staged. The American Peony Society's gold medal again went outside of Chicago, this time to B. H. Farr. To the local growers belongs the credit of maintaining the show and so warm is the weather that at this writing, the afternoon of the first day, it is predicted that many petals will fall before morning. The large vases of blooms that made such a showing last year have given place to more and smaller ones, somewhat diminishing the apparent size of the exhibit, but the number of blooms shown is probably just as large, and the number of varieties larger than last year.

Prize Awards.

OPEN CLASSES

Class 1.—Collection of not less than 100 named varieties, one of each: Gold medal, B. H. Farr; silver medal, A. P. Reeves.

2.—Display of blooms: 3rd, W. W. Barnard Co.

3.—Largest display of blooms of any one variety: 1st, Vaughan's Seed Store; 2nd, W. W. Barnard Co.

4.—Vase of 100 blooms arranged for effect: 2nd, W. W. Barnard Co.

5.—Collection of 50 double in 20 named varieties: 1st, B. H. Farr.

6.—Collection of 25 named varieties, double, one bloom of each: 1st, Peterson's Nurseries; 2nd, Vaughan's Seed Store.

8.—Fifty blooms, white double, one variety: 1st and 2nd, Peterson's Nurseries; 3rd, Vaughan's Seed Store.

9.—Fifty light pink, double, one variety: 1st, 2nd and 3rd, Peterson's Nurseries.

10.—Fifty dark pink, double, one variety: 1st, Martin Kohankie; 2nd, Vaughan's Seed Store; 3rd, Peterson's Nurseries.

11.—Fifty red or crimson, with stamens, double, one variety: 1st, 2nd and 3rd, Peterson's Nurseries.

12.—Fifty red or crimson, without stamens, double, one variety: 1st, Peterson's Nurseries; 2nd, Vaughan's Seed Store; 3rd, W. W. Barnard Co.

13.—Fifty blooms any combination of two or more shades, double: 1st, Vaughan's Seed Store; 2nd, Peterson's Nurseries; 3rd, W. W. Barnard Co.

14.—Collection of 12 distinct named varieties, double, one bloom of each: 1st, Vaughan's Seed Store.

16.—Twelve white, double, one variety: 1st, 2nd and 3rd, Peterson's Nurseries.

17.—Twelve light pink, double, one variety: 1st, 2nd and 3rd, Peterson's Nurseries.

18.—Twelve dark pink, double, one variety: 1st and 3rd, Peterson's Nurseries; 2nd, Vaughan's Seed Store.

19.—Twelve red or crimson, with stamens, double, one variety: 1st, 2nd and 3rd, Peterson's Nurseries.

20.—Twelve red or crimson, without stamens, double, one variety: 1st and 2nd, Peterson's Nurseries; 3rd, E. A. Reeves.

21.—Twelve blooms, one variety, any combination of two or more shades, double: 2nd, Vaughan's Seed Store.

HARDY PERENNIALS—CUT BLOOMS

Class 22.—Collection of Hardy Perennials, other than peonies: 1st, Vaughan's Seed Store.

Amateurs and Private Gardeners Only.

Class 23.—Collection of blooms, variety, quality and quantity to be considered: 3rd, A. P. Saunders, Clinton, N. Y.

25.—Collection of 10 named varieties, double, three of each: 3rd, A. P. Saunders.

HARDY PERENNIALS—CUT BLOOMS

Class 33.—Collection of hardy perennials, other than peonies, quality and variety considered: 1st, A. P. Saunders.

CINCINNATI FLORISTS' SOCIETY.

The Florists' Society's regular meeting was held at J. A. Peterson's home on Monday afternoon and evening in the birch pergola in front of the house. The nominations to be balloted upon at the annual meeting next month were as follows: President, Jas. Allen, Ed. Schumann; vice-president, Max Rudolph, Fred Backmeier; secretary, Alex. Ostendarp, Chas. Murphy; treasurer, Chas. H. Hoffmeister, Gus Adrian; trustee, J. A. Peterson, Frank Volz. The outing committee appointed consists of J. A. Peterson, C. E. Critchell, Wm. Murphy and Max Rudolph. During the late afternoon Mr. Peterson showed his guests through the greenhouses, and everything was found to be fully up to the reputation of this place. After the meeting the company adjourned to the house, where a little spread was enjoyed and Mrs. Peterson and Clarence Peterson showed lantern slides of pictures taken by members of the family on their various trips to the different conventions and meetings, about this city during the flood of 1913 and of various flowers. These pictures, except most of those of the flood, were of persons and events intimately connected with the trade and consequently were very interesting. At the close of the programme E. G. Gillett, on behalf of the members of the Society, thanked Mr. and Mrs. Peterson and their family for their kind and elaborate entertainment.

ROSE AND PEONY SHOW, PHILADELPHIA.

"Rose and peony show" rolls trippingly off the tongue, ergo the heading; but it was really more of a peony event, although there was an interesting display of roses also. The rotunda and the lower hall were well filled with these, also with a fine showing of hardy perennials, on the 4th inst.—this being the annual June event of the Pennsylvania Horticultural Society at Horticultural Hall.

Joseph Hurley had a rich display of twelve of the best of the sixty-five varieties in the Hunter collection of peonies. Some of the most charming of the twelve we made a note of and pass the list along: Marie Durex, Mme. de Bettencourt, Mme. Farrell, Etienne Mechin, Mme. Le Graye and Livingston. A fine pink marked Duke of Wellington in this collection was shown at the next table by Dreer and was a **sulphur white.** One of the finest peonies in the show for size and beauty was exhibited in another collection and had no name on it at all. And yet we profess to believe that a flower show is held to educate the public. Forget that. Flower shows are held so that the gardeners may gather in some prize money. No exhibit, however meritorious, should get a premium unless properly named. Show management that permits such crudeness and provincialism is open to criticism.

Samuel Batchelor exhibited in the same class as Mr. Hurley and put up a fine showing. Dreer had sixteen handsome roses nearby but not for competition. One of the finest of these was Agnes Mary Kelway, but it was not shown at its best, the blooms being rather passé. In the classes for smaller quantities there was good competition, there being from five to six entries in each. The varieties, however, were largely the same as in those already mentioned, as was the case also with the big mixed vases.

In outdoor roses there was a fairly good showing. William Robertson staged thirty-seven varieties of hybrid teas, Axel Lindroth twenty and David Aiken forty-one varieties, for the Huey prize. The gems in this competition were white Killarney, Killarney Queen, Caroline Testout, Mme. Segund Weber, Ophelia, and General McArthur. Among the lot was our old friend La France—bull-nosed as ever. There was only one showing for the Dreer prize of twenty new H. T.'s, but that one was fine and proved one of the features of the exhibition. This was staged by Robertson, one bloom of each only, but enough to show the beautiful novelties, as they were all in splendid form and finish. Among the notable ones were Bianca, Mrs. F. Grey, Duchess of Sutherland, Willowmere, Earl Gosford, Marcella and British Queen. The showing of H. P's was very meagre, Jacqueminot, Mrs. John Laing, Captain Hayward, and Prince Camille de Rohan being about the only items to be seen.

The display of hardy perennials was very interesting, Robertson and Batchelor both staging fine collections. Among the choicer items in this connection were Siberian iris, gaillardia, digitalis, oriental poppy, Spirea aruncus, dicentra, delphinium, pyrethrum, coreopsis, aquilegia, valerian, eremurus, and fraxinella. One of the seldom-seen things was Clematis recta from a bush six feet in diameter and five feet high. This may be best described as a bush C. paniculata flowering from June to August. A fine thing. I mean to have one in my garden when I make my fortune in the seed business and retire to my farm.

One of the features of the show was an artistic staging by Thos. Meehan & Sons of a few seasonable gems full of interest. Mr. Matthews who had charge of this exhibit is an artist at staging. Pterostyrax hispidum (the Japanese wistaria tree) was a revelation to most of us. The parent tree is now forty feet high and the young ones for sale are so scarce, as yet, that few of us know what a beautiful thing this is. The real Styrax japonica was also shown and a blush pink seedling from same with smaller flowers. Tamarix gallitzia, Phlox argillacea, a silvery pink midway between the subulata and decussata in flowering. A new oriental poppy, Princess Ena, Hemerrocallis Meehani, a new hybrid very large and very bright yellow, two fine varieties of Penzance sweetbriars and a nice lot of Paul's Carmine Pillar rose, were all notable features of this small, but excee lingly interesting exhibit.

THE CHERRY-BLOOM.

By Yae Kichi Yabe

Life begets charms; it brings bliss and joy, it procreates pleasure and delight. The heart becomes exhilarant, the spirit gets exultant, and the mind is elated. To live then is worth while.

The fascination cast by the sight of beautiful blossoms, enticement created by the presence of fragrant bloom, indeed is a cause of profound gratification. It is unique and sublime, exciting one's esthetic feeling to a high pitch.

Nothing strikes the sense with so alluring an effect as does the delicate pink of the cherry. The exquisite form of its petals, the freshness and unstained purity of its hue and liveliness of its bearing merit intense adoration.

The flowers cover the tree from the extremeties of its boughs and twigs to the pinnacle of its trunk and branches. It is pleasing to view these rich, magnificent sights. A grove or row of such trees discloses an imposing scene, a pile of clouds or of thick mist at a distance, a mass of shining snow upon the trees as nearer beheld, and huge sheets of gorgeous vividness when seen at the spot.

Strolling an avenue of the trees or beneath the dense vaults of the blossom-laden branches, bathed in the bright, sprightly sun that permeates through in a soft, pellucid radiance, tinting the atmosphere with a pink and snow-white shade, one is apt to be completely bewitched.

The *sukura*, the Japan cherry, has been adored with an almost fervent passion by the Japanese from time immemorial and its beauty glorified in poetry and prose. Some of the most subtle, loftiest sentiments of the people, those peculiar emotions which are excited at the grandeur of nature, were expressed almost invariably in association with the virtue of the cheery-bloom.

The cherry thus constitutes a favorite theme of the Japanese artist, who in depicting a spring view never omits it. And it has come to be the emblem of spring just as the moon has been made to represent autumn. Nor our admiration ceases in this, for we have honored it and come to speak of it as the Flower of Spring or the Flower of flowers.

But the blossom of the *sakura* is not only the cause of our highest artistic gratification. Fair and superlatively beautiful as it is, the flower is likewise the course of our loftiest moral inspiration.

Brilliant is the career of the cherry-bloom, glorious is the life it pursues. But more brilliant and more glorious is the end it faces.

For the bloom tarries not till its beauty fades, its fame departs. It lingers not on the branch till its stalk is rotten, and it corrupts and falls amid shame and disgrace. It bravely meets its doom ere it loses the adoration it acquired.

Like a gallant, intrepid hero, walking unflinchingly into the gulf of danger and death the blossom of the *sakura* falls, leaving behind it a sweet fragrant air and a radiant reminiscence.

The cherry thrives for a brief time; but its fame survives long. Man lives but one generation, yet his name lasts for ages. It is a cause of our profound satisfaction, sullen, yet exalted, to be crushed a precious stone and die, rather than, to remain a worthless brick and live.

For sweet is the thought to the serious-minded race that the future generations will ever remember us with a revering and cherishing memory when we are dead and gone.

We shall leave this world, if not today, then tomorrow, if not this year, the next year, or in decades hence. Sooner or later we are destined to face our doom, that stern promise which every life is called to fulfil. We desire thus to live a life that shall be as noble and sumptuous, as exalted and splendid, as the conditions allow. We covet as bright and as worthy a career as we are permitted to follow.

But it is likewise our wishes that our end should be as brilliant and bright a scene as our career has been. Nobly had the cradle of man been rocked, nobly has he played the little game of life; he deserves to be laid on his grave with befitting honor and splendor.

The blossom of the cherry in its brief course teaches us the loftiest lesson of life and death, a precious spiritual aspiration of the people. It is the source of the moral strength, the spring of the exalted acts of self-denial, loyalty and patriotism.—*Japan.*

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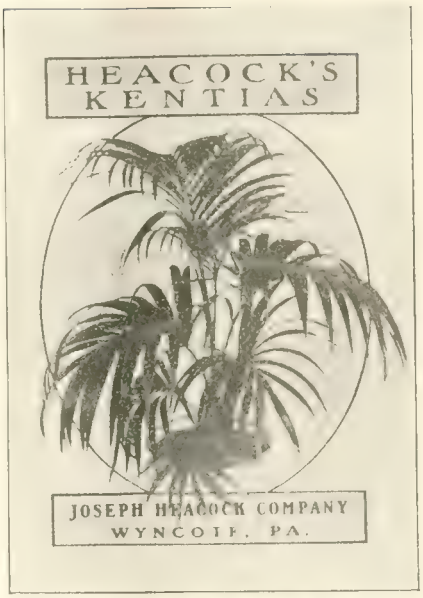
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HARDY EVERGREEN RHODODENDRONS.

(From Bulletin No. 57 of the Arnold Arboretum.)

The number of species of Rhododendrons with evergreen leaves which can be successfully cultivated in this climate is not large. The four species of eastern North America, *Rhododendron maximum*, *R. Catawbiense*, *R. carolinianum* and *R. minus* are all perfectly hardy, as are *R. Smirnowii* and *R. caucasicum* from the Caucasus, *R. brachycarpum* from Japan and *R. micranthum* from China. The flower-buds of the last, however, have been destroyed by the cold of the past winter. The two European species, *R. ferrugineum* and *R. hirsutum*, are not very satisfactory plants for this climate, and unless exceptionally favorable positions can be found for them they are not long-lived here. In recent years *R. maximum* has been largely planted in this part of the country, but the common Rhododendron of American gardens belongs to a race of hybrids which originated in England many years ago and are known as Catawbiense hybrids because they have been produced by crossing *R. Catawbiense* of the high summits of the southern Appalachian Mountains with *R. ponticum* of the Caucasus, and with *R. arboreum* and other Himalayan species. These hybrids are valuable in this country in proportion to the influence on them of *R. Catawbiense*, and it is found that varieties with broad leaves like those of the American plant are always hardier than the narrow-leaved varieties which show a greater influence of *R. ponticum* and the Indian species. The number of these hybrids, however, which are really hardy in this climate is not large; among them Atrosanguineum (very early), Charles Dickens and H. W. Sargent (late) of red-flowered varieties are good plants; among the pink-flowered varieties none have proved so satisfactory as Mrs. Charles Sargent and Henrietta Sargent, similar in general appearance, but the latter with smaller and more compact flower-clusters and flowers of not quite such a perfect pink. Among the varieties with rose-colored flowers, Roseum elegans and Lady Armstrong are hardy and satisfactory; and among the varieties with dark purple flowers Purpureum grandiflorum, Purpureum elegans and King of the Purples are all hardy. Of the varieties with light purple flowers Everestianum is the best and one of the hardiest and most satisfactory of all these hybrids. Among the white-flowered varieties Catawbiense album (very early), Album elegans and Album grandiflorum can be safely used. Most of the hybrid Rhododendrons in American gardens are of English origin, but a few years ago the Arboretum obtained in Germany a number of these hybrids raised in that country. These have proved very hardy and some of them promise to be valuable additions to the Rhododendrons which can be successfully cultivated here. The most distinct, perhaps, are Viola, with white flowers, Albert, with pale pink flowers, and Bismarck, with white flowers with small brown dots on the inner face of the corolla. The last has flowered profusely now every season for the last three years; the foliage and habit are good, and as it flowers early this variety is particularly valuable, for there are not many early white-flowered Catawbiense hybrids. Among the hybrid Rhododendrons which have been raised between *R. catawbiense* and *R. maximum* the best known is Delicatissimum. This blooms later than the Catawbiense hybrids; it is a large plant, of good habit, with long lustrous leaves and pale pink and white flowers, and one of the best Rhododendrons which can be grown in this climate.

The experience of another year confirms the good opinion which the Caucasian *Rhododendron Smirnowii* has made for itself here. It is a large plant with pale green leaves covered below with a thick mat of nearly white wool and large clusters of bright pink flowers. It grows best in partial shade as the hot sun of our summer causes the leaves to curl. A number of hybrids have been obtained in Europe by crossing this species with some of the Catawbiense hybrids. Some of these hybrids are established in the Arboretum and have flowered for several years, but the cold of the past winter has destroyed their flower-buds. *Rhododendron caucasicum* and its hybrids or varieties should be more often found in our gardens, in which the form of this species known as Boule de Neige is the only one usually seen. Like the other forms of *R. caucasicum* it is a small compact plant which covers itself with clusters of large white flowers which open earlier than those of most of the Catawbiense hybrids. This earliness, its good habit, and its handsome pure white flowers make this a desirable garden plant in this climate. Another plant of this race with pale yellow flowers, known as *R. coriaceum*, is now in flower and is also a hardy and desirable plant. A smaller plant of this race, Mont Blanc, is interesting as the flowers, which are bright pink when they open, become at the end of a day or two pure white. On some of the dwarf forms of *R. caucasicum* the flower-buds have been injured this year for the first time, but in spite of this these plants can be recommended for New England gardens.

Rosa Hugonis has been in flower in the Shrub Collection for the first time in the Arboretum. It is a native of western China, with clear yellow single flowers and neat pale foliage.

MOUNTAIN LAUREL.



KALMIA AND WHITE PINES

Kalmia time is now with us and the dainty flowers of this loveliest of American broad-leaved evergreens are seen in the wholesale markets in great quantities. It is pleasing to see natural growths of kalmia protected against the cutting and slashing which is rapidly exterminating the plant in many localities. The accompanying picture shows a bit of the extensive natural woodland of white pines with undergrowth of kalmia, on the estate of F. S. Moseley at Newburyport, Mass. It is beautiful to contemplate at any season of the year, but when in bud and bloom it makes a picture never to be forgotten.

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There are not many yellow-flowered Roses hardy in New England, and *R. Hugonis* promises to be a valuable addition to the number.

DODDER ON SWEET PEA.

Miss Hazel Smith of Nashua, Iowa, sends the following letter in regard to a parasite found on sweet peas.

"I am enclosing a specimen of my sweet peas, which are being attacked by some foreign growth, in hopes that you can tell me how to rid them of it before it is too late. I had the same trouble last year and tried to keep those tendrils picked off, but it did no good and they took the life all out of the peas. They grow very rapidly and twine all around them. The lettuce next to the peas is bothered in the same way."

The following is my reply to Miss Smith.

The sweet peas are attacked by dodder. The species I cannot name; it may be either the clover dodder or field dodder. It was undoubtedly introduced with some dodder seeds with the sweet pea or has escaped from the clover field. The following method will be found of use. First, the herbicidal treatment. For this purpose a liberal application of a 10 per cent. solution of copper sulphate will be found efficacious.

It is advisable to mow the patch if it is a small one, to rake the material into a pile, and after allowing it to dry to burn it. The field should be watched carefully, for if the seed is formed, young dodder plants will make their appearance upon the new growth of clover. It is best therefore to follow the mowing by hoeing if the spot is a small one and continuing this for several weeks until all danger of infection is passed. Dewey recommends keeping the soil stirred for about two inches and not allowing any young plants to come in contact with the clover. L. H. PAMMEL.

Iowa State College,
Dept. of Botany.

PYRUS FLORIBUNDA.

Known also as Pyrus Malus floribunda and Malus floribunda, the tree which is the subject of our cover illustration this week, still holds its place as one of the showiest and best small trees for decorative planting, although it is now nearly half a century since its first introduction from Japan. The leaves appear with the flowers but so numerous are the latter that the foliage is entirely obscured when the blossoms are fully expanded as is well shown in the picture. The buds are luminous rose-pink and the fully opened flowers are pale and finally white. The tree is most beautiful when about half the flowers are opened, the bright rosy buds giving an exquisite effect amongst the white.

THRIPS ON GRAPE VINES.

Editor HORTICULTURE.

Would you kindly publish in your paper a remedy to check thrips in a grape house, started in February?

A SUBSCRIBER.

This is a pretty hard problem at this stage. I presume the grapes have started to color by this time. The only thing to do now to keep them in check is to give them a good syringing with cold water, being very careful not to injure the bunches any more than possible. ED. KIRK.

THE GLAD HAND

GLADIOLI—GLADIOLUS—GLADIOLUSES

Which is right? The only way to find out is to plant some of our stock and if planted now or even later, they will bloom when the earlier planted stock is passed; which means higher prices for the flowers and is good business.

We offer the following varieties less 5 per cent if cash accompanies the order:

Boddington's Quality Gladioli

AMERICA (Our Specialty). This beautiful new Gladiolus has produced as great a sensation as the now famous Princeps. The flowers, which are of immense size, are of the most beautiful flesh.pink color, and, as a florist who saw it said, it is "fine enough for a bride's bouquet."

Selected Bulbs, 2 to 2½ inches.....$1.50 per 100, $12.00 per 1000
1st size, 1½ to 2 inches..... 1.25 per 100, 10.00 per 1000
2nd size, 1¼ to 1½ inches..... 1.00 per 100, 9.00 per 1000

	100	1000
HOLLANDIA (The Pink Brenchleyensis). Flowers well arranged on a spike which attains a height of about 4 feet. Often as many as 30 blooms of a charming pink shade tinted yellow are open at one time. First size bulbs	$1.75	$15.00

PEACE. The flowers are large, of good form and correctly placed on a heavy, straight spike. They are a beautiful white, with a pale lilac feathering on the inferior petals. "Peace" is not an early bloomer, but rather medium to late, and planted at the same time with other stock, it is in its best condition when most other varieties have passed blooming. Per doz., $1.25; per 100, $9.00; per 1000, $85.00.

Grand Novelty Orchid-flowered Gladiolus

MRS. FRANK PENDLETON, JR. Order early to procure Mrs. Frank Pendleton, Jr. Awarded First-Class Certificate of Merit by the Massachusetts Horticultural Society of Boston and by the American Gladiolus Society at Baltimore, 1911. Its color is the most exquisite salmon-pink with a very conspicuous blood-red blotch in the throat on the lower petals. Per doz., $5.00; per 100, $40.00.

PINK AUGUSTA. Color a lovely soft pink. This variety is especially suitable for forcing under glass, for which purpose it is especially recommended. Per doz., 35c.; per 100, $2.50; per 1000, $20.00.

	Doz.	100
I. S. HENDRICKSON. A beautiful and irregular mottling of white and bright, deep pink; in some the pink and in others the white predominates. Flowers and spikes very large and fine	$.75	$4.75
MADAM MONNERET. Delicate rose; late bloomer. Per 1000, $26.75	.50	2.75
	100	1000
BRENCHLEYENSIS (true). Fiery scarlet.		
Top roots, XXX, 2 and 2½ inches	1.50	14.00
First size bulbs, XX, 1¾ to 2 inches	1.25	12.00
Second size, X, 1 to 1¾ inches	1.25	10.00
BODDINGTON'S WHITE AND LIGHT.		
First size, XX, 1¼ to 1½ inches	1.25	12.00
1900. Nothing finer for florists' use. Flower is of a rich shade of red, with very prominent white spots on three lower petals	1.75	15.00
MRS. FRANCIS KING. Color of flower is a light scarlet of a pleasing shade.		
First size, XX, 1¼ to 1½ inches	1.75	16.00
PRINCEPS. Color rich crimson, with broad white blotches across the lower petals. Flowers can be grown to nearly 8 inches in diameter under stimulating culture	3.75	35.00
GROFF'S HYBRIDS (Originator's strain).		
First size, X, very fine mixture	1.00	9.00
SHAKESPEARE. White and rose	4.25	40.00
AMERICAN HYBRIDS. XX. A mixture of the choicest varieties of Gladiolus in equal proportion; very fine	1.00	9.00
AMERICAN HYBRIDS. X. Very fine mixture	.85	7.50
STRIPED AND VARIEGATED	2.25	21.50
PINK AND ROSE SHADES	1.75	16.00
ORANGE AND YELLOW SHADES	3.50	32.00
SCARLET AND RED SHADES	1.50	14.00
LEMOINE'S HYBRIDS	1.50	12.00
CHILDSII. First quality, mixed; dark shades	1.75	16.00
Good quality, mixed; light shades	2.50	22.50

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The Adulteration and Misbranding of the Seeds of Kentucky Bluegrass and Redtop.

During the calendar year 1913 seeds of Kentucky bluegrass and redtop were secured in the open market in accordance with the following paragraph in the act of Congress making appropriations for the Department of Agriculture:

Where such samples (seeds of grasses, clover, or alfalfa) seemed in the open market to are found to be adulterated or misbranded, the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale

In carrying out the provisions of this act, 1,021 samples of the seeds mentioned above were secured and analyses made under the direction of Mr. E. Brown, Botanist in Charge of the Seed Laboratory, Bureau of Plant Industry, and publication has been made of the analyses of the 127 samples found to be adulterated or misbranded, together with the names of the seedsmen by whom they were sold or offered for sale.

Of the 438 samples of Kentucky bluegrass seed obtained, 15, or less than 4 per cent., were found to be either adulterated or misbranded. Of these, 9 samples contained less than 2 per cent. of Kentucky bluegrass. One sample was a mixture of redtop, timothy, Canada bluegrass, and Kentucky bluegrass.

Of the 583 samples obtained as redtop seed, 112 were found to be adulterated or misbranded. Of these, 110 samples contained timothy; 1, Kentucky bluegrass and wood meadow grass; 1, Canada bluegrass; and 1, Kentucky bluegrass, Canada bluegrass and meadow fescue.

Seed Trade Needs.

New faces appear as the younger generation grows up. This season we find at Waterer's an Annan; at Dreer's a Laird—both Scots of good address, good training, and fine promise in the seed business. Good seedsmen are far too few in America. No business in the world requires so much as the seed trade the three essentials:

(1) A high sense of honor.

(2) A deep love of truth.

(3) Unsubduable courage in defense of both.

It is a business where confidence in integrity is absolutely fundamental.

G. C. W.

Chicago Seed Trade Notes.

Seed houses are now balancing accounts and a fairly successful season is reported, with nothing remarkable to go on record. The onion set sales were good up to the close of the season and none were left out of a large crop, while prices held at a profitable figure to the last. So far the prospects for seed crops for next season are favorable. The Leonard Seed Co. report the unusual rainfall of the past month to have been generally favorable to seed crops, though some damage has been done in certain localities. This firm will probably be represented at the coming meeting of the American Seed Trade Association at Washington, D. C., by S. F. Leonard and F. S. Bennett.

PHILADELPHIA NOTES.

Mrs. Edward Campbell and daughter Jeannette, of Ardmore, with party of six, sailed on the "S. S. Haverford" on the 6th inst. for a trip to the old country. They will return in September. Bon voyage. It keeps your scribe busy these days keeping track of the pilgrims.

The Laird of Lansdowne, alias Sir Edward Reid, of Ranstead street, is proudly showing to his friends a magnificent silver cup, the premier trophy in the Reliability Run, Philadelphia to Stone Harbor. Seventy cars started—all of them new, fast and up-to-date. The Reid car, under the masterly handling of its owner, was simply irresistible. Hence the cup. Wonder if Mr. Reid knows what a cup is for?

John Burton and Mrs. Burton started on an up-state auto trip for nowhere in particular on Friday. John's idea is to just keep on going—and programs be hanged. This is a real wayside wandering. Stop or go on as the spirit moves. The last heard of him was at Gettysburg, with nowhere to lay his head. We hope he meets David Grayson on the way to help him out in these "Adventures of Contentment."

What's the matter with Brother Ebel now? After abandoning the "fallacy" proposition he now starts in about the "minimum." Everybody knows that raising the minimum necessarily raises the maximum—no matter whether one reason from induction or deduction. Far be it from us to make claims, but we may be pardoned for thinking that as a rule we use words that convey a clear meaning. Involved or wobbly sentences are as much out of place as crude thinking. Alexander Pope is a pretty good model but there were other good prophets and heralds of modern gardening that it would do no harm to study—Bacon, Milton, Addison, Kent, and Horace Walpole—for instance.

The transportation committee of which John Westcott is chairman held a second meeting on the 9th inst. From all we can hear the committee will recommend Philadelphia to Boston via Reading and Metropolitan Steamship, rate $5.80 each way; stateroom and meals extra. Pier 18 N. R., New York, 5 p. m., arrival in Boston 7 a. m.—which means the party will leave Philadelphia from the Reading Terminal sometime Monday forenoon, probably about 10 a. m. This program is only tentative, of course, and is not final until endorsed by the Club at its regular meeting July 7. Meantime, get busy making arrangements for the most glorious trip ever—Monday August 17, to Boston.

The fine lawns that abound in and around Overbrook in the most fashionable section of Northern West Philadelphia are a reminder to the traveler of the lawns one sees in Holland and in some parts of Ireland. Possibly much of the beauty of the verdure is due to the grass seed with which these fine lawns are planted that is secured and sold in tons by George C. Watson, seedsman, who represents Messrs. Barenbrug, Burgers & Co., of Arnhem, Holland. Mr. Watson is a Scottish-American and is an acknowledged authority on seeds and bulbs. The writer has known him for many years and knows he is fully equipped to represent these seed growers of Holland, where the finest grass seed is secured and which is the home of the bulb families known to horticulturists. Mr. Watson has also written several papers on the growing of plants in America, and also on the many variegated species of the tulip family. He is a bon vivant and a good talker, which naturally makes him a good salesman.

Philadelphia Despatch.

Fierce things like the above are liable to be done to a fellow if he happens to be a member of the pen and pencil club.

The Michell peony show opened on the 3rd inst. and was well attended. The main store was a blaze of beauty with all the popular varieties and the west window was particularly attractive with a good collection which compelled attention from the passers-by. Among the varieties that struck us as among the handsomest in the general display were: Alice Crousse, Faust, Gigantea, Solfaerre, Alexander Dumas, Anemonæflora Rubra, Caroline Allaine, Flora Treasure, Octavia de May Brefonneau, General Boisdeffre, Nana Sahib, Mme. de Verneville, Augustin d'Hour, Marguerite Gerard. There was also a good showing of the ever-popular favorites such as Festiva maxima, Louis Van Houtte, Madame Crousse, etc. The display was not competitive, grown mostly at the Michell nurseries at Andalusia. From both an artistic and business standpoint the show was a big success. Mr. Farr, the peony

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Gladiolus Bulbs

	Per 100	Per 1000
2000 Pink Augusta	$1.75	$15.00
3000 Brenchleyensis	1.00	10.00
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10000 Mrs. F. King	1.50	10.00
3000 White and Light	1.50	12.50

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Plumosus Nanus Per 1,000	
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5,000	1.75
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Dwarf Double Pearl

Extra large size

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"The most reliable seeds"

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specialist, of Wyomissing, contributed generously from his fine collection.

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Dealers report all kinds of asparagus roots very scarce this year

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DETROIT, MICH.
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Of Interest to Retail Florists

NEW FLOWER STORES.

Clinton, Ill.—G. A. Bennett.

Louisville, Ky.—F. Walker & Co., Chestnut street.

Buffalo, N. Y.—Rolker Flower Shop, 60 Elmwood avenue.

Winsted, Ct.—Joseph Durand, Geraty Block, Main street.

Milwaukee, Wis.—Arthur A. Schumann, 714 Center avenue.

Springfield, Ill.—Colonial Flower Shop, 207 South Fourth street.

Cleveland, O.—Westman & Getz, Euclid avenue, near 105th street.

STEAMER DEPARTURES

Allan.

Numidian, Boston-Glasgow...June 16

American.

Philadelphia, N. Y.-S'h'mpt'n.June 19
New York, N. Y.-S'hampton..June 26

Atlantic Transport.

Minnetonka, N. Y.-London...June 20
Minneapolis, N. Y.-London...June 27

Cunard.

Caronia, Boston-Liverpool...June 16
Mauretania, N. Y.-Liverpool..June 17
Pannonia, N. Y.-Medit'r'n....June 20

French.

La Provence, N. Y.-Havre....June 17
Rochambeau, N. Y.-Havre...June 20
France, N. Y.-Havre.....June 24

Holland-America.

Noordam, N. Y.-Rotterdam...June 16
Ryndam, N. Y.-Rotterdam...June 23

Hamburg-American.

Cleveland, Boston-Hamburg..June 16
Vaterland, N. Y.-Hamburg...June 16
Pres. Grant, N. Y.-Hamburg.June 18

Leyland.

Winifredian, Boston-Liv'p'l...June 20
Devonian, Boston-Liverpool..June 27

North German Lloyd.

Kronprinzessin Cecille, New York-Bremen .....June 16
Koenig Albert, N.Y.-M'd't'r'n.June 17
Kaiser Wilhelm der Grosse, New York-Mediterranean...June 23

Red Star.

Lapland, N. Y.-Antwerp.....June 20
Zeeland, N. Y.-Antwerp.....June 27

White Star.

Cedric, N. Y.-Liverpool.....June 18
Olympic, N. Y.-S'hampton...June 20
Arabic, Boston-Liverpool.....June 23
Adriatic, N. Y.-Liverpool.....June 25
Cretic, Boston-Mediterranean.June 27

West Roxbury, Mass.—An automobile truck of the New England Telephone & Telegraph Company ran away all by itself Monday afternoon, June 8, down the steep incline of Lorraine street, and wrecked a greenhouse belonging to O. A. Knight. The truck crashed into the greenhouse and plunged through without hesitation, in a zigzag course, demolishing most of the flowers, amid a great splintering of glass. Then the machine leaped over the intervening space to a second greenhouse and plowed into that structure until the forward wheels sank in the soft soil below. Fortunately no one was injured.

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Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEWS NOTES.

Hogan, Ore.—Theodore Wedell has leased the Crystal Spring greenhouses.

Jacob Hauck has bought out the greenhouse establishment of J. J. Brozat at Bloomfield, N. J.

Riverside, R. I.—Andrew Olsen has purchased 2½ acres of land near the old Vanity Fair grounds, where he plans to build a range of greenhouses in the near future.

The summer colony of florists at Newport, R. I., is rapidly getting ready for the season's campaign. Wadley & Smyth have sent part of their force from New York to open up for business.

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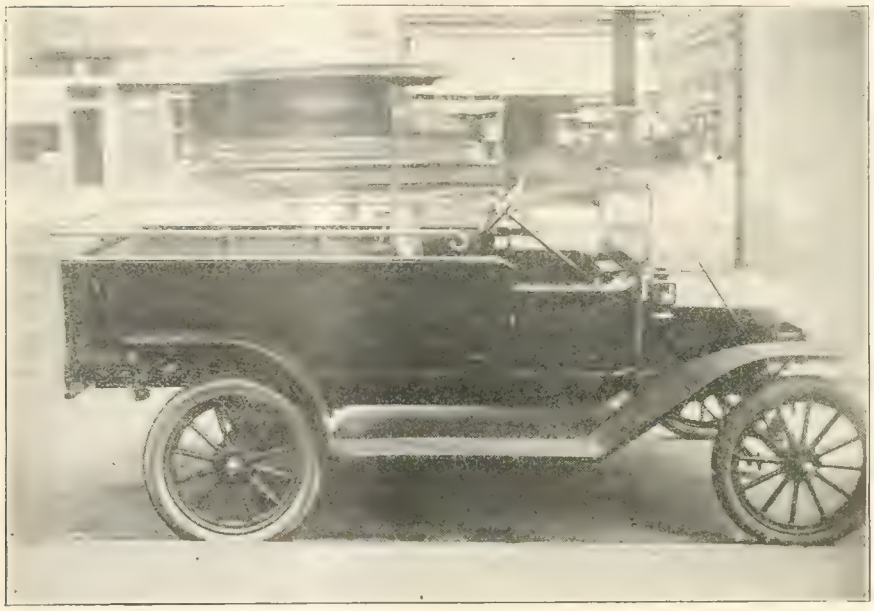
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ANDERSON service means fresh, sturdy stock, and prompt deliveries in BUFFALO, LOCKPORT, NIAGARA FALLS and WESTERN NEW YORK.
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HARRY I. RANDALL, Proprietor.
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3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

A SERVICEABLE FLOWER DELIVERY CAR.



The picture accompanying shows a convenient little auto for anyone having need for such a vehicle. It is used by Chas. Millang for carrying flowers from the greenhouses in Bayside to his New York store each morning and has proved a handy and inexpensive adjunct for many uses during the day. There is a door which opens in the back and a hood to protect the seat in rainy weather.

CHICAGO NOTES.

Aster growers say their plants are already forming buds. This means that the stems will be short which in turn means the returns are likely to be the same.

The friends of Robert Northam, for many years sales-manager for George Reinberg, are pleased to learn that he is reported out of danger at the Washington Park Hospital, where he underwent an operation for appendicitis June 4.

Kroeschell Bros. go on record for the best business in their history. Fred Lautenschlager says that at no previous time has the demand been so general for greenhouse boilers and fittings, showing that the past year must have been financially satisfactory to flower growers.

Hoerber Bros. say that not a complaint was received from all their shipments of roses and carnations Memorial week. Certainly their carnations look very wide awake, but the trouble is that even the grower cannot tell why his carnations are sleepy or why they are not, so his experience does not help him much for the next time.

The opinion is frequently expressed that floral pieces are no longer used at large funerals, but the facts did not bear this out at the Art Institute last week when the body of Director French lay in state. The floral offerings were very many and a very large proportion were of the made-up order, beautiful and imposing and more easily handled than loose flowers could have been.

The meeting of the General Federation of Women's Clubs at the Auditorium this week, gave opportunity for a very pretty stage decoration. Chicago had been exploited as an ideal summer resort and the "weather man" had been depended upon to make good these claims, but with the fickleness for which Chicago weather is noted, the opening day was a sweltering one. To offset this the large theatre stage was transformed into an Italian garden. A large white pergola was on either side, over which vines were draped, and under which walks led to the sides of the stage. Overhead the entire effect was that of a forest and as a suggestion of coolness the result was admirable. A hedge formed the borders of the stage and urns filled with plants added to the out-of-door effect.

WASHINGTON NOTES.

An examination will be held in Alexandria, Va., on June 29, for the purpose of securing eligibles for the position of landscape architectural draftsman under the Department of Agriculture.

George H. Cooke is giving up his store at Connecticut avenue and L street, N. W., and will take temporary quarters in the block below. The building in which he is at present located will be torn down and a modern structure erected. When this has been done Mr. Cooke will again take a store there.

All unlimited telephone service in business houses has been discontinued in the District of Columbia, despite the protests of the merchants, and beginning with June 1, all bills will be rendered on the message rate basis. This decision of the telephone company will add materially to the overhead expenses of the florists.

A letter has been sent out by Mr. Gude in connection with the Smith Memorial plans, which reads: "The committee appointed at the Chicago convention, has been continuously at work since its appointment, and has decided that the monument should take a form useful as well as ornamental in the shape of a memorial building to the father of our charter. The Committee, therefore, asks that you now send in your subscriptions to William F. Gude, chairman, 1214 F street, Northwest, Washington, D. C., so that the memorial may take tangible

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Fifth Ave., at 46th Street, NEW YORK
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CHICAGO
And Neighboring Towns
Are Thoroughly Covered by
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Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of
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STORES IN
New London and Norwich, Conn. and Westerly, R. I.
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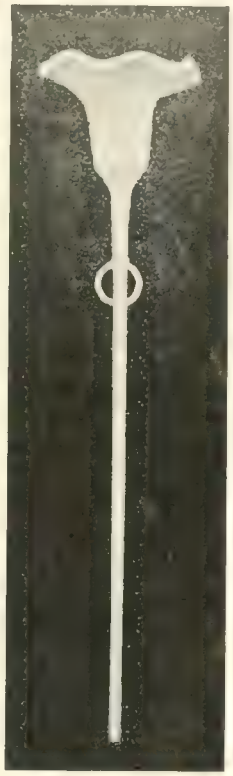
WEDDING ACCESSORIES



No. 3



No. 4



No. 5

These Cuts Show Three of Our Latest Novelties Which We Term

BRIDESMAIDS' RESTING BASKETS

See Nos. 3, 4 and 5 in our Catalogue. And there are others, See Catalogue pages as follows:

Page 29, Kneeling Stool; Page 98, Shoulder Bridal Baskets No. 330; Page 97, Aisle Post No. 405; Page 95, Shepherd's Crook No 307, Directoire Staff No. 308, and Empire Staff No. 309.

Get Busy With These
Now is the Time

H. BAYERSDORFER & CO.

The Florists' Supply House of America

1129 Arch Street, - - Philadelphia, Pa.

form at the earliest possible date." The letter further states that it is the hope of the committee that the contribution will be a liberal one in order that the florists of the United States may show the world their appreciation of a man who did so much to promote and uplift our calling.

The parcel post system in Washington will hereafter render service similar to that of the expresses, for a telephone call to the main or branch offices will cause the sending of a wagon to pick up all parcel post packages exceeding ten pounds in weight. In the down town section the teams will make eight trips a day. Collectors are also authorized to accept insured parcel post packages, and as each wagon will be equipped with a scale, no difficulty will be experienced in ascertaining the amount of prepay charges.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

Personal

Arthur E. Thatcher, manager of the Mt. Desert Nurseries, and Miss Nancy Abigail Butterfield were married at Bar Harbor, Me., on Tuesday, June 9.

Somers Point, N. J.—Thomas Walker, who has been in the employ of Robert Craig Company for over 27 years, is now manager of the Colonial Greenhouses.

John F. Ward, has closed up his florist business in Shelburne, Falls, Mass., and has gone with his family to Farmington, Ct., where he has taken a position as manager of a greenhouse.

Genevieve Frances Roy, daughter of David F. Roy, superintendent of "The Moorings," and Dr. Ernest R. Humphries will be married at "The Moorings," Marion, Mass., on Thursday, June 25.

David Lumsden for several years assistant in Floriculture at Durham, N. H., leaves the New Hampshire College on June 11, to take up his new duties as Assistant Professor of Floriculture at Cornell University.

Edmund James Welch, eldest son of Patrick Welch, Boston, was married to Miss Anna Adeline Welch, at St. Patrick's Church, Roxbury, Mass., on Wednesday, June 10. The church, which was elaborately decorated with lilies, climbing roses, hydrangeas and gladioli, was filled with the friends of the bride and groom. A trip to Europe is in the honeymoon program.

Ed. Asmus, who has been managing the Closter, N. J., establishment since the death of his father, Ernst Asmus, will, after July 1, also assume charge of the West Hoboken place hither run by his brother. Percy W. Richter, who has been salesman for Phil. Kessler in the Coogan Building, New York, will now resume his former position as salesman for the Asmus establishments.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 8			CHICAGO June 8			BUFFALO June 8			PITTSBURG May 25		
Am. Beauty, Special	20.00	to	25.00	20.00	to	30.00	25.00	to	30.00	20.00	to	25.00
" " Fancy and Extra	12.00	to	15.00	15.00	to	20.00	15.00	to	20.00	12.00	to	15.00
" " No. 1	8.00	to	10.00	8.00	to	12.00	8.00	to	15.00	6.00	to	10.00
Killarney, Extra	5.00	to	8.00	5.00	to	6.00	6.00	to	8.00	8.00	to	10.00
" Ordinary	3.00	to	5.00	2.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Richmond, Hillingdon, Extra	6.00	to	8.00	5.00	to	6.00	6.00	to	8.00	8.00	to	10.00
" " Ordinary	3.00	to	5.00	2.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Maryland, Ward, Taft, Sunburst, Ex.	6.00	to	8.00	5.00	to	8.00	6.00	to	8.00	8.00	to	10.00
" " " Ordinary	3.00	to	5.00	3.00	to	4.00	3.00	to	5.00	3.00	to	6.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	2.00	to	3.00	2.00	to	2.50	1.50	to	2.00	.....	to	3.00
" Ordinary	1.50	to	2.00	.75	to	1.00	1.00	to	1.50	.....	to	2.00
Cattleyas	.....	to	80.00	35.00	to	50.00	40.00	to	50.00	25.00	to	40.00
Lilies, Longiflorum	8.00	to	10.00	5.00	to	8.00	6.00	to	10.00	6.00	to	8.00
Lily of the Valley	.....	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Snapdragon	5.00	to	6.00	3.00	to	6.00	4.00	to	7.00	4.00	to	8.00
Mignonette	4.00	to	6.00	3.00	to	5.00	2.00	to	4.00	2.00	to	4.00
Daises, white and yellow	.35	to	.75	.50	to	1.00	1.00	to	1.50	1.00	to	3.00
Sweet Peas	.35	to	.75	25	to	1.00	.50	to	1.00	.50	to	1.00
Gardenias	.....	to	.....	15.00	to	25.00	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.....	to	1.00	.50	to	1.25	.....	to	1.25
Smilax	12.50	to	12.50	12.00	to	15.00	.....	to	15.00	15.00	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	40.00	to	50.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	20.00	to	25.00	25.00	to	40.00	35.00	to	50.00	40.00	to	50.00

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Flower Market Reports

BOSTON

Business is below normal for this date, but is somewhat better than it was last week. There is a heavy stock of everything in the market and prices in quantity are necessarily low. In roses the best sellers are Double White Killarney, Killarney Queen, Cardinal and Sunburst. Lily of the valley is also a lively subject this month. Of the things that are not quoted in our regular price columns, but which are having a fair demand just now, there are peonies from $4 to $8 per 100; cornflowers at 75c. to $1; gladioli at $4 to $8. Peonies from a distance are weather beaten and bedraggled but the local crop which is just opening, is all right as to quality.

CHICAGO

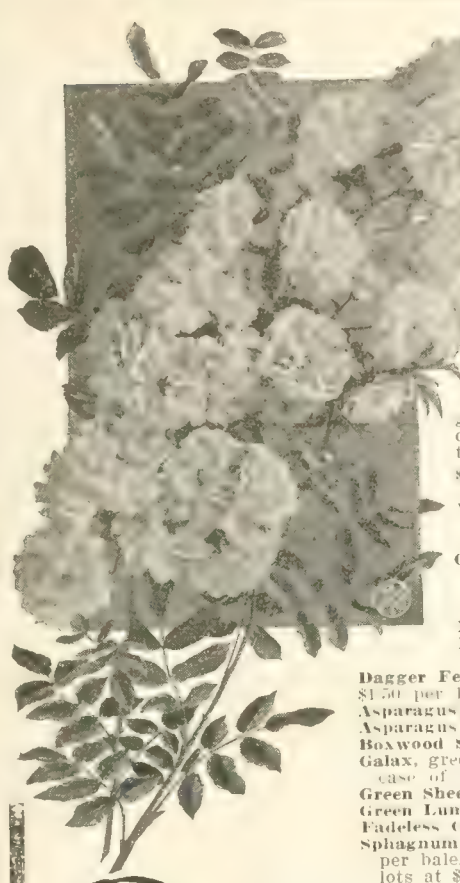
The condition of the Chicago market remains a great disappointment to those who are accustomed to having a good business in June, as a sort of preparation for the dull months following. There does not seem to be any basis for hope of a change in the near future, the government thermometer registering 93° and a strong, hot wind from the southeast taking the life out of the stock. The Saturday trade, though nothing like a normal week-end business, was a little more encouraging than the balance of the week, but this week unless stock is excellent, it does not move at all. A few really good carnations are seen but the great bulk are soft and sleepy. There is some demand for a good quality of roses for June weddings and commencements, but stock is apt to be small and weak-stemmed. A fair supply of Beauties are coming and these sell, especially the longer ones. Shipping is light. Peonies have proven unsatisfactory as a whole and many growers will face a loss.

CINCINNATI

This city and vicinity is still in the throes of the hottest spell of the year. Last week we had a brief respite but this week the sun came out again with all and more of its former fury. The rural districts need rain badly. Flowers are in a very heavy supply but a large part of them are showing the effect of the hot weather. The demand ranges from slow to ordinary. Last week was commencement week and resulted in a fair call for flowers. Most of the florists came in for their share of this business. Blooms mostly sought after were yellow roses, American Beauties, corn flower and coreopsis. At the time of this writing all seasonable flowers may be had in quantities.

NEW YORK

Complaints of dull demand and unprecedentedly low figures on staple cut flowers are prevalent in the wholesale market district again this week. The Memorial Day slaughter left the market in a most demoralized condition from which there has been no recovery thus far. Receipts of flowers have continued very heavy, peonies, lilies and roses predominating. Sweet peas also are far in excess of the capacity of the market. Mountain laurel in bloom is being sent in from the country and helps to increase the burden. Quantities of pyrethrums, sweet williams and similar products of the herbaceous garden are also in the way. Lilies have never been offered so cheap but even at $15.00 to $20.00 a thousand they remain unsold. Many outdoor Jacqs and other June blooming roses are seen on all sides. Carnations are not so plentiful as they were and are evidently receding rapidly, but like everything else, they bring very little. Cattleyas are superb and there are lots of them — gigas of great beauty being now at their height. Whatever one may think of the relative value of the other material which floods the market in June there can be but one opinion of the intrinsic worth of these splendid cattleyas, that it is far more than the price at which they must be sold at present. Lily of the valley is really the best seller on the list and will probably hold its own for some time to come. Receipts are heavy and quality fine. Roses show the enervating effects of the recent hot wave. The cut is still enormous



Rose Sprays

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$5.00 to $25.00 per 100, according to the length of sprays.

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Special		$4.00
Extra		3.00
CATTLEYAS	$6.00	
A few extra choice Gigas	7.50	

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Leucothoe, green, $1.00 per 100, $7.50 per 1000.
Dagger Ferns, best quality, long, perfect fronds, $1.50 per 1000.
Asparagus Plumosus, bunches and strings, 50c ea.
Asparagus Sprengeri, 25c and 35c per bunch.
Boxwood Sprays, 50-lb. cases, $7.50 each.
Galax, green and bronze, $1.50 per 1000, $7.50 per case of 10,000.
Green Sheet Moss, $3.50 per bag.
Green Lump Moss, $1.50 per bbl.
Fadeless Green Sheet Moss, $3.50 per bag.
Sphagnum Moss (burlapped), 10 bbl. bales, $4.00 per bale, 5 bale lots at $3.75 per bale, 10 bale lots at $3.50 per bale.

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 11			ST. LOUIS June 8			PHILA. June		
Roses									
Am. Beauty, Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00
" " Fancy and Extra	8.00	to	15.00	15.00	to	18.00	12.50	to	16.00
" " No. 1	2.00	to	6.00	5.00	to	10.00	3.00	to	10.00
Killarney, Extra	3.00	to	5.00	4.00	to	6.00	4.00	to	8.00
" Ordinary	1.00	to	2.00	2.00	to	3.00	1.00	to	3.00
Richmond, Hillingdon, Extra	3.00	to	5.00	5.00	to	8.00	4.00	to	8.00
" " Ordinary	1.00	to	2.00	3.00	to	4.00	1.00	to	3.00
Maryland, Ward, Taft, Sunburst, Extra	3.00	to	6.00	4.00	to	6.00	4.00	to	8.00
" " " " Ordinary	1.00	to	2.00	2.00	to	3.00	1.00	to	3.00
Russell, Shawyer	2.00	to	15.00	.....	to	.....	2.00	to	12.00
Carnations, Fancy	1.00	to	2.00	2.00	to	4.00	2.00	to	3.00
" Ordinary	.50	to	1.00	.50	to	1.00	.50	to	1.50
Cattleyas	25.00	to	30.00	40.00	to	50.00	35.00	to	50.00
Lilies, Longiflorum	3.00	to	6.00	8.00	to	10.00	4.00	to	8.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Snapdragon	2.00	to	4.00	2.00	to	4.00	1.00	to	4.00
Mignonette	1.00	to	3.00	4.00	to	5.00	.....	to	.....
Daisies, white and yellow	1.00	to	1.50	.25	to	1.00	.40	to	1.00
Sweet Peas	.20	to	.75	.20	to	.40	.20	to	1.00
Gardenias	12.00	to	20.00	.....	to	.....	4.00	to	20.00
Adiantum	.75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	10.00	to	12.50	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Sprn. (100 Bchs.)	12.00	to	35.00	15.00	to	25.00	25.00	to	50.00

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 6 1914	First Half of Week beginning June 8 1914
American Beauty, Special	15.00 to 25.00	20.00 to 25.00
" " Fancy and Extra	8.00 to 12.00	10.00 to 20.00
" " No. 1	2.00 to 6.00	2.00 to 6.00
Killarney, Extra	3.00 to 5.00	3.00 to 5.00
" Ordinary	.50 to 2.00	.50 to 2.00
Richmond, Hillingdon, Extra	3.00 to 5.00	4.00 to 5.00
" " Ordinary	.50 to 3.00	.50 to 3.00
Maryland, Ward, Taft, Sunburst, Extra	4.00 to 5.00	3.00 to 5.00
" " " Ordinary	.50 to 3.00	1.00 to 3.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	2.00 to 3.00
" Ordinary	.50 to 1.50	.50 to 1.50

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Flower Market Reports

(Continued from page 878)

but it will soon begin to dwindle and this fact together with the finish of the peonies, which is not far off, will soon relieve the market of its unwieldy load.

PHILADELPHIA

First week of June, which in this market is usually very good, suffered a sort of aftermath from the congested Memorial week conditions. There was a fair amount of business done, but the tremendous oversupply was still very much in evidence, especially the first few days. Later in the week things picked up a little. American Beauty roses are among the most satisfactory items. The quality is very good for the season. Prices held firm with an upward tendency. Carnations were under grade and there was little regular demand. Much of the stock went to the street at absurd prices.

"Count that day lost
Whose low descending sun
Sees prices shot to shreds
And business done for fun"

Sweet peas are very fair quality and hold their own about as good as anything. The outdoor crop is now the mainstay and they are much harder and keep well—far ahead of the forced material. In the cattleya market Gaskelliana, Mendeli and gigas now hold sway; Mossiae is about over. Easter lilies still very plentiful and very moderate in price. In regard to general conditions, the next week or two will see a big shortening up in crops. Even now the tendency is noticeable in some things. The warm weather we are now experiencing hits both quantity and quality. Peonies still in their glory. Rambler roses, cornflower, coreopsis, iris, delphinium, xerophyllum, and many other outdoor items add variety and interest to the situation, but we fear the returns for same must be rather disappointing to the shippers. Old Iron Face is having the time of his life.

WASHINGTON

The bottom having long since dropped out of the local flower market it is now a case of "How much will you give," rather than the asking of a price for anything other than perhaps lily of the valley, which is in great demand because of the large number of wedding bouquets, and orchids. Roses, carnations, gardenias, sweet peas and every other variety of flowers can be had in quantities for a song; the market is overloaded and the scrap heap in the wholesale and commission houses grows by leaps and bounds each day. There is but little call for anything and sales, other than decoration work, are made only when the customer at retail desires something exclusive, then he visits the stores. At the market one can get 75 sweet peas for as low as five cents at retail and the gardeners have to throw away large quantities even when offering them at that price. But when it comes to including sweet peas in a corsage or bridal bouquet, that's another story. A remarkably good quality of indoor sweet peas of the Spencer type are to be had at about $1 per hundred. Gladioli are in fair demand at about $6 per hundred. The week opened with intense heat, unbearable because of the cool weather which has heretofore prevailed.

ST. LOUIS

The market is still in an overcrowded condition, everything plentiful and small demands. The retailers say they had a very disappointing week. All flowers displayed at the wholesale markets show plainly the effects of the hot, dry weather. Roses come in bad and carnations are small. Sweet peas are in abundance and so are cape jasmines. Candidum and longiflorum lilies are fine, but too many. Gladiolus stalks, too, are coming in heavy. Everything in greens can be had in plenty, except ferns, which have been very scarce of late.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 6 1914			First Half of Week beginning June 8 1914		
Cattleyas	15.00	to	35.00	15.00	to	35.00
Lilies, Longiflorum	2.00	to	4.00	2.00	to	4.00
Lily of the Valley	1.00	to	3.00	1.00	to	3.00
Snapdragon	2.00	to	3.00	2.00	to	3.00
Mignonette	.50	to	2.00	.50	to	2.00
Daises, white and yellow	.75	to	1.50	.75	to	1.50
Sweet Peas (per 100 bunches)	1.00	to	6.00	1.00	to	6.00
Gardenias	10.00	to	25.00	10.00	to	25.00
Adiantum	.50	to	.75	.35	to	.75
Smilax	10.00	to	16.00	10.00	to	16.00
Asparagus Plumosus, strings (per 100)	35.00	to	50.00	35.00	to	50.00
" " & Spren 100 bunches)	15.00	to	35.00	20.00	to	35.00

Obituary

H. L. Murdock.

H. L. Murdock for 35 years in the florist business, died at his home 67 Pine St., Gardner, Mass., Tuesday, June 9, after an illness of three months, of heart failure. He retired from business about eleven years ago and the business has since been carried on by his son, F. W. Murdock. His wife died in February, since when he has been in failing health. Mr. Murdock was one of the sterling men in the florist business in New England and during his long business career enjoyed the confidence and respect of the trade to the fullest extent. His age was 75 years.

C. M. Stark.

Louisiana, Mo., June 1.—Clarence McDowell Stark, for thirty years head of Stark Nurseries in this city, under whose management the establishment became the largest nursery in the world, died suddenly Saturday afternoon at a sanitarium in Jacksonville, Ill., where he had been on account of his health. He was found dead between 4 and 5 o'clock, a few minutes after he had gone to his room for a short sleep.

Mr. Stark succeeded his father who was the founder of the big plant, as head of the Stark Nurseries. For thirty years he directed the business, placing it at the very top of its line. In this time he became known as one of the leading horticulturists in the United States. He was actively identified with the growth and progress of this city in the past third of a century. In 1904 he retired from the presidency of the nursery company.

His widow and three children survive.

H. Schmalzel.

Hans Schmalzel, florist and proprietor of the West End Green House, Lincoln, Ill., was found dead in bed on Wednesday morning, May 20, by his family, when called for breakfast. Death had occurred several hours previous to discovery of the body, and the attending physician stated death was due to heart failure.

Hans Schmalzel was born in Spietzholl, near Reginsburg, Bavaria, on March 26, 1860, and was 54 years and 2 months of age.

He came to America at an early age and settled in Canada, later coming to the United States, where he settled in Kansas. In 1898 he located in Lincoln, where he has since resided. For ten years he has conducted the West End Greenhouse and was one of the best florists and designers in the city. Recently the green house was sold, and plans were being completed for the erection of a new plant, and a stock company had already been formed. Surviving are the wife and three children, Carl F., Susie H. and Kurt, also two brothers in Germany.

VISITORS' REGISTER.

New York.—L. J. Reuter, Westerly, R. I.; Emil Glauber, Montclair, Colo.

Philadelphia: — Mrs. John Wolff, and daughter, Savannah, Ga.; George Klinges, Atlantic City, N. J.

Boston.—Leonard Barron, Garden City, N. Y.; Ormister H. Roy, Montreal, P. Q.; Wm. Cotter, Montreal, P. Q.; E. Dorey, New York City; Reginald Beal, of Carter's, London, Eng.; H. C. Neubrand, representing A. N. Pierson, Cromwell, Conn.; Wm. Tricker, Arlington, N. J.

Holm Lea, the beautiful estate of Prof. C. S. Sargent in Brookline, Mass., was opened to the public Saturday afternoon and all day Sunday, June 7. The rhododendrons, azaleas and other flowers were in their best bloom.



Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 3-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
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ASTERS

ASTER PLANTS—Good, strong, frame-grown. Vick's Late Branching, lavender, pink and white; Michell's Shell Pink and others; $2.75 per 1000. KEENEY'S GREENHOUSES, Monongahela, Pa.

AUCTION SALES

N. F. McCarthy & Co., Boston, Mass.
Horticultural Auctioneers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AUTO TIRES

Non-Puncture Tire Factory, Dayton, Ohio.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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Otto Heinecken, New York City.
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John McKenzie, No. Cambridge, Mass.
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Storrs & Harrison Co., Painesville, O.
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K. J. Kuyk, Ghent, Belgium.
Diamond Collection Azaleas.

BAY TREES

McHutchison & Co., New York.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York.
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BAY TREES—Standard and Pyramids. All sizes. Price List on demand. JULIUS RCEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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Alonzo J. Bryan, Washington, N. J.
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H. Hansen, Malden, Mass.
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BEDDING PLANTS—Continued

Geraniums: Nutt, Ricard, Poitevine, Viaud, Jaulin, La Favorite; Cannas; Asparagus, Musaetolia; Heliotrope, Salvia Bonfire, 3½ in., $6.00 per 100. Blue Ageratum, Howard's Star Petunias, double Alyssum, white Marguerites, German Ivy, Salvia Bonfire, Coleus Verschaffelttii, G. Bedder, Queen Victoria, Firebrand, 3 in., $5.00 per 100. Achyranthes Lindenii, Coleus (4 colors), Dusty Miller, Alternanthera (red, yellow), 2½ in., $3.00 per 100. Dracaena indivisa, extra heavy, 6 in., $40.00 per 100. Vinca variegata, 3½ in., $8.00 per 100. Cash. F. SOKOL, Worcester, Mass.

BEGONIAS

Storrs & Harrison Co., Painesville, O.
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BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

BOILERS

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"King Ideal" Boiler.
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Hitchings & Co., New York City.

Lord & Burnham Co., New York City.
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BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

BOXWOOD TREES

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Gladioli, Caladiums and Tuberoses
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Ralph M. Ward & Co., New York City.
Lily Bulbs.
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A. T. Boddington, New York City.
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German Iris and Liliums Henryi and Tenuifolium.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CELERY PLANTS

Celery Plants, Golden Self-Blanching (French Strain), fine plants, ready now, $2.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

CHRYSANTHEMUMS

Poehlmann Bros. Co., Morton Grove, Ill.
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Wood Bros., Fishkill, N. Y.
Chrysanthemums Rooted Cuttings.
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Chrysanthemums—50,000 rooted cuttings and plants from soil; leading market sorts. Write for prices. WM. SWAYNE, Kennett Square, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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CYCLAMENS from 3 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias—best cut-flower varieties and novelties. Send your list of wants to the largest Dahlia grower in the world. J. K. ALEXANDER, "The Dahlia King," East Bridgewater, Mass.

Snyder's stock of Dahlia Sylvia. Having finished planting dahlias for cut-flowers, I have about 8,000 good divisions, all sprouted, of Sylvia, the best paying dahlia for cutting, left over; while they last, $1.00 per 100, $8.00 per 1,000; also 1200 Catherine Duer at same price. Can furnish 10 other kinds in small lots. Cash, please. Mannetto Hill Nurseries, W. A. FINGER, prop., Hicksville, N. Y.

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Wizard Brand Cattle Manure.
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4,000 S. A. Nutt, 2,000 B. Poitevine, 5 cents. G. P. GRIDLEY, Wolfboro, N. H.

Geranium S. A. Nutt in bud and bloom, 3½ in. pots; good plants, 6c. Cash please. CHAS. H. GREEN, Spencer, Mass.

Several hundred S. A. Nutt from 2½ in. pots, at $15.00 per 1000. Cash with order. F. W. FIELD, 119 Elm St., Waverly, N. Y.

GLADIOLUS

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J. P. Campbell, Jacksonville, Fla.

IVY

German Ivy, 2 to 2½ in. pots, extra heavy cool grown stock, 2c. Satisfaction guaranteed. S. E. PROSSER, Warrensburg, N. Y.

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LAURUS
Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
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PEONIES.
Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Reliable Squab Journal, Versailles, Mo.
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Framingham Nurseries, Framingham, Mass.
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A. N. Pierson, Inc., Cromwell, Conn.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

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Kelway & Son, Langport, England.
Garden, Farm and Flower Seeds.

Fottler, Fiske & Rawson Co., Boston, Mass.

SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPRINKLING, IRRIGATING AND WATER SUPPLY OUTFITS

Chas. J. Jager & Co., Boston, Mass.

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Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

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Burnett Bros., New York City.
Pot-Grown.
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SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
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S. Bryson Ayres Co.,
Sunnyslope, Independence, Mo.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties; 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

Transplanted Tomato Plants—Earliana, Acme, Stone, Perfection, Ponderosa, $4.00 per 1000. A. CROFT, Garrison-on-Hudson, N. Y.

Tomato Plants from frames; strong, hardy plants, $1.50 per 1000. J. A. KEENEY, Monongahela, Pa.

Egg Plants, strong, transplanted, $1.00 per 100. J. A. KEENEY, Monongahela, Pa.

CABBAGE—All good varieties, strong, transplanted, frame grown plants, $1.50 to $2.50 per 1000. KEENEY'S GREENHOUSES, Monongahela, Pa.

Strong Late Cabbage Plants, $1.50 per 1000. J. A. KEENEY, Monongahela, Pa.

TOMATO PLANTS—All good varieties, strong, transplanted, frame grown, $1.50 to $3.00 per 1000. Best you ever saw. KEENEY'S GREENHOUSES, Monongahela, Pa.

Egg Plants, 2½ in. pots, strong, healthy. Packed to carry safe; 2c. each. J. A. KEENEY, Monongahela, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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Quaker City Machine Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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William Capstick, Auburndale, Mass.
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VIOLETS

Wm. Sim, Cliftondale, Mass.
Princess of Wales.
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G. & C. Merriam Co., Springfield, Mass.

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Pino-Lyptol Chemical Co., New York City.

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Reed & Keller, New York City.
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Komada Bros., Philadelphia, Pa.
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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

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Boston

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McAlpine & McDonald, Boston, Mass.

Brooklyn

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Chicago

Peter Reinberg, 37 Randolph St.

Poehlmann Bros. Co., Morton Grove, Ill.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers In This Issue

AETNA BRAND TANKAGE FERTILIZER.

Farmers' and Florists' Fertilizer Co., Chicago, Ill.
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AUTOMOBILE TIRES.

Tire Factories' Sales Co., Dayton, Ohio.
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PEONIES.

T. C. Thurlow's Sons, Inc.,
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ROSES.

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ROSE SPRAY.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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TWEMLOW'S PUTTY.

Wm. Elliott & Sons, New York, N. Y.
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In writing to Advertisers kindly mention Horticulture

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

FOR SALE

FOR SALE

Lot of land, 218 feet by 106 feet, with 3 iron construction green houses 175 x 20 feet each, potting shed, some frames in fine condition. Located on three streets, trolley passing the front, in a town of 40,000 inhabitants, close to New York. Excellent place suitable either for local trade where all the products could be readily sold or for wholesale shipping to New York or Philadelphia. Low price, terms to suit purchaser. Address Chance, care HORTICULTURE.

FOR SALE—30,000 sq. ft. of Greenhouses; Extra Large 6-Room House; Large Barn and Wagon Shed; Packing House with Cement Tanks, Pumping Engine and Engine House, also Boiler House; 4 1-50 acres of the best land, with the privilege of 30 acres more R R switch on premises. Located 30 miles from New York on Long Island; 1 mile to two R. R. stations. Address "W. B., Box 85, Lakehurst, N. J.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

SITUATIONS WANTED

SITUATION WANTED—Young man, assistant gardener; intelligent, willing worker. Lover of plants. Near Boston. References. Address S. F., care HORTICULTURE.

SITUATION WANTED—As gardener. Life experience, both inside and out, in all branches. Best of references. Married. Scotch. Address "D. M.," care of HORTICULTURE.

WANTED—By married man, position as working superintendent on private estate. Thoroughly competent with poultry, dairy and gardens. For full particulars, apply to JOHN T. WITHERS, Landscape Architect, 1 Montgomery St., Jersey City.

INFORMATION WANTED

WANTED names and addresses of foremen seeking positions on commercial places January and February, 1913. Address "J. L.," care HORTICULTURE.

POISONOUS SPRAY ON APPLES.

The London press has recently printed communicated articles relating to the presence of copper sulphate (blue vitriol) on imported apples, deposited there, it is assumed, in the course of spraying the trees against attacks of fungi, etc. It was said that this poisonous substance is employed as a spray in one American State, and that its use may seriously affect the British importation of apples therefrom. This matter has been referred to the United States Department of Agriculture.—*(Consul General John L. Griffiths, London, England.)*

FERTILIZER EXPERIMENTS

At the Floricultural Experiment Station, University of Illinois. By F. W. Muncie, in Charge of Fertilizer Experiments.

The experimental work upon fertilizers and methods of growing floricultural crops conducted at the University of Illinois at the present time may be summarized as follows:

1. The Advisability of Fertilizing With Acid Phosphate.

Experiments which have been completed have shown (1) that dried blood, supplying nitrogen to the plant, has resulted in an increase in the number of flowers without causing a deterioration in the quality in the culture of carnations and roses, in case the amount applied is not so excessive as to result in injury from overfeeding. Applications of acid phosphate and sulphate of potash have not given beneficial results when applied alone. The conclusion seems to be that nitrogen is the element most necessary to apply. During the present year, a test has been made to see whether acid phosphate when applied together with ample amounts of a nitrogenous fertilizer would cause a further increase in production. For this purpose the amount of nitrogenous fertilizer (sulphate of ammonia in this case) has been kept the same in all sections, but ample enough to supply the plant, while the quantities of acid phosphate have been varied from none to 43 lbs. on carnations and 100 lbs. on roses per 100 sq. ft., six sections, each containing successively larger quantities of acid phosphate constituting the experiment. As would be expected from an experiment extending over only six months, the results are not yet conclusive, but results to the present date may be given.

CARNATIONS* (120 plants).

	Rosette flowers	White Perfection flowers
No phosphate	555	683
2.6 lbs.	525	692
5.3 "	564	664
10.6 "	573	665
21.3 "	550	634
42.6 "	614	684
Average	563.5	670.3

*8 lbs. sulphate of ammonia per 100 sq. ft. applied to date. Acid phosphate in lbs. per 100 sq. ft.

ROSES (96).

Richmond.

	Own-Root flowers	Grafted flowers
No phosphate	480	564
6.6 lbs.	494	585
13.3 "	485	625
26.6 "	471	646
53.3 "	499	606
106.6 "	486	602
Average	485.8	604.6

Killarney.

	Own-Root flowers	Grafted flowers
No phosphate	394	479
6.6 lbs.	431	516
13.3 "	430	592
26.6 "	440	597
53.3 "	458	542
106.6 "	432	532
Average	430.8	539.6

*10 lbs. sulphate of ammonia per 100 sq. ft. applied to date. Acid phosphate in lbs. per 100 sq. ft.

The inconsistencies here may be due to the short duration of the experiment, or, as seems quite likely, to the fact that the soil at the experiment station is fairly rich, and does not need fertilizers until later in the year when the stock of available food in the soil has become comparatively exhausted. An observation that sections both of roses and carnations which have received no fertilizer during the fall and winter seem to be in excellent condition, would point out that the well-known adage of "not feeding until the turn of the year" is worth investigating.

(To be continued)

POISON KIL-WORM POISON

Destroys Worms, Ants, etc., infesting Golf, Cricket Grounds, Parks and Lawns. Sure death to Snails. Does not injure Grass; causes the insects to come to the surface to die. (Must not come in contact with fine plants.)

One gallon **Kil-Worm** makes 50 gallons liquid when mixed with water.

1 qt., $1.00; ½ gal., $1.75; 1 gal., $3.00; 5 gals., $13.50.

POISON KIL-WEED POISON

A scientific Weed Destroyer—free from odor. An unsurpassed preparation for the removal of Grass, Weeds, Vines and Bushes from paths, etc. Saves expense of several men; can be applied with an ordinary sprinkling can.

One gallon **Kil-Weed** makes 30 to 35 gallons liquid when mixed with water.

1 qt., 35c.; ½ gal., 60c.; 1 gal., $1.00; 5 gals., $4.00; 10 gals., $7.50; 1 barrel, per gal., 65c.

LEMON OIL COMPANY, Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every pkg ; write for circular.

AUTOMOBILE TIRES AT FACTORY PRICES

SAVE FROM 30 TO 60 PER CENT.

	Tire	Tube
28x3	$ 7.20	$1.65
30x3	7.80	1.95
30x3½	10.80	2.80
32x3½	11.90	2.95
34x3½	12.40	3.00
32x4	13.70	3.35
33x4	14.80	3.50
34x4	16.80	3.60
36x4	17.85	3.90
35x4½	19.75	4.85
36x4½	19.85	4.90
37x4½	21.50	5.10
37x5	24.90	5.90

All other sizes in stock. Non-Skid tires 15 per cent. additional, red tubes 10 per cent. above gray. **All new clean, fresh, guaranteed tires.** Best standard and independent makes. Buy direct from us and save money. 5 per cent. discount if payment in full accompanies each order. C. O. D. on 10 per cent. deposit. Allowing examination.

TIRE FACTORIES SALES CO.

Dept. A. Dayton, Ohio

Wilmington, Del.—The greenhouse of John F. Knauss, 231 South Broadway, was damaged by fire May 30. The loss is estimated at $500, partly covered by insurance.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength **For Spraying**

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

IMP.

SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses, Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL. $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO, BOSTON

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide

For green, black, white fly, red spider, thrips, mealy bug and soft scale. Can be used on tender plants.

$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and other blights. It is perfectly safe to apply to fruits and vegetables, as it is non-poisonous. An infallible remedy for rose mildew, carnation and chrysanthemum rust.

75c. per quart—$2.00 per gallon.

VERMINE

For eel, cut and wire worms working in the soil. It can be applied to all vegetation.

$1.00 per quart—$3.00 per gallon.

SCALINE

For San Jose, Oyster Shell and all scale on trees and hardy stock. An effective remedy for red spider on evergreens.

75c. per quart—$1.50 per gallon.

All the above products are readily soluble in water at proportions directed on cans and are used as spraying materials.

NIKOTIANA

A 12% nicotine solution for fumigating and vaporizing.

$1.50 per quart—$4.50 per gallon.

Manufactured by

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.
Bag of 100 lbs. $3.50.
Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N.Y.

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - BEVERLY, MASS.

AETNA BRAND TANKAGE FERTILIZER

Acknowledged to be the best balanced fertilizer manufactured. It contains the ten basic salts constituting soil. It is giving satisfactory results wherever used. Write for 500-lb. sample order.

FARMERS AND FLORISTS FERTILIZER CO.

809 Exchange Ave., Rm. 15. Tel. Yards 842.

U. S. YARDS, CHICAGO, ILL.

RAISE PIGEONS

THEY PAY DOLLARS WHILE CHICKENS PAY CENTS

The young, 20 to 25 days old, sell for 40 to 60 cents each (according to the season). The city markets are always clamoring for them.

Each pair of Pigeons will raise 18 to 22 young a year.

They will clear you, above all expenses, $5.00 a year per pair. They breed the entire year. Twenty minutes daily will care for 100 pairs.

Always penned up out of the way. Very small space required.

All this is fully explained in this month's issue of our Journal; send for it; price 10 cents.

Reliable Squab Journal, Versailles, Mo.

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Pot Makers for a Century and a Half

HEWS STANDARD POTS

World's Largest Manufacturers

AND RED EARTHENWARE SPECIALTIES

Write for Catalogue and Discounts

A. H. HEWS & CO., Inc., Cambridge, Mass.

Warehouses: CAMBRIDGE, MASS. LONG ISLAND CITY, N. Y.

BELGIAN HOTHOUSE GRAPES.

(Vice Consul General Charles Roy Nasmith, Brussels.)

Hothouse grapes are raised extensively in Belgium, principally in the villages of Hoeylaert, Overyssche, and La Hulpe, situated about 8 miles outside the city of Brussels. They are also raised in small quantities at Wayre, Ste. Catherine, Contich, Duffel, Vilvorde, and Ypres, Belgium.

This industry first started at Hoeylaert 50 years ago and has developed steadily. Now there are 15,000 hothouses in which grapes are grown, and the total annual production is 4,000,000 to 5,000,000 kilos (8,818,500 to 11,023,100 pounds). New hothouses are being constructed each year and the industry is becoming more and more important.

The Belgian statistics show exports of these grapes to the different countries in 1912 as follows, in pounds: To England, 1,043,227; Germany, 317,466; United States, 211,203; Netherlands, 100,090; France, 3,968; other countries, 40,786; total, 1,716,740 pounds. The records of this office show that in 1912 the exports of grapes invoiced at the Brussels consulate general for shipment to the United States aggregated $64,977. In 1913 the declared exports of grapes from this district to the United States were some $4,700 less in value, the shipments by quarters last year being: March quarter, $16 802; June quarter, $13,463; September quarter, $4,226; December quarter, $25,782; total, $60,273.

Varieties Grown—Description of Hothouses.

The principal varieties of grapes grown in hothouses are especially the Franckenthal, the Gros Colman, and, in less quantities, the Black Alicante, also the following white grapes: Muscat blanc d'Alexandrie, Gris Dore, and the Forster. The principal variety exported to the United States is the Gros Colman which stands transportation much better than the other varieties.

The average dimensions of a hothouse in which the grapes are grown are 65 feet long, 26 feet wide, and 7 to 9 feet high. They are heated through large tile pipes, by hot air that comes from furnaces built underneath at each end. It costs about 100 francs ($19.30) a month to heat one of these hot houses during the forcing season. The coal used is anthracite. In each hothouse there is a cistern of about 10 cubic meters (2,642 gallons) full of water, which is used for watering the vines. One hothouse of the dimensions mentioned will contain 60 grapevines or 10 peach trees. The construction of a hot house costs about 1,500 francs ($290). The wages paid workmen average 3.50 francs ($0.675) per day. The average production of a hothouse is 350 to 450 kilos (771 to 992 pounds).

Peaches, pears and tomatoes are also grown in quite large quantities in the same hothouses. One house can contain 800 pots in which tomatoes are grown. Out of season—commencing in September and finishing in April—many salad plants are grown with the grapes in the hothouses, especially lettuce, spinach, and sweet cicely, also radishes, and some of these products are exported to Germany.

Trade Susceptible of Expansion.

Belgian growers of hothouse grapes who have visited hothouses in the United States consider the methods used in Belgium for growing these grapes, and especially the constructions of the buildings and the system of heating, far superior to the American way. Also some of the growers here are thinking seriously of establishing hothouses in the United States, as they consider the opportunities for making money in this way to be especially good.

At present transportation facilities between Belgium and the United States are entirely insufficient on the steamers of the Red Star Line sailing from Antwerp, about 30 miles away. All the available refrigerator space has been taken by a few growers, and other exporters of hothouse grapes are compelled to ship by way of Rotterdam or by steamer from Antwerp to Southampton, and then by steamer to New York. One grower gave it as his opinion that ten times the amount of grapes now sold in the United States could easily be disposed of if they could be delivered, and all the shippers agree that there is no difficulty in finding a market for their grapes.

GREENHOUSES BUILDING OR CONTEMPLATED.

Louisville, Ky. — Sam Pontrich, house 15 x 125.

Upper Sandusky, O.—Constien Bros., additions and alterations.

Wilkesbarre, Pa.—Wm. L. Connyngham, range of King houses.

Berkeley, Mass. — R. E. Giles, 287 Washington street, one house.

Coshocton, O.—Andrew Kiefer, 15th and Orange streets, one house.

Albany, N. Y.—John T. Travison, 337 South Pearl street, house 17 x 26.

Farmingdale, N. Y. — Frank Dinde, two houses each 21 x 100, one house 10 x 100, King construction.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

KING GREENHOUSES

Are supplied in 3 different Iron Frame Types; also in the Semi Iron or Pipe Frame styles, so we can offer you a strong, practical Sunny House at the price you can afford to pay.
Write us today—just tell us what you want and we will do the rest.

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N.Y.

FOLEY
Builds Good Greenhouses
TRY HIM.
THE FOLEY GREENHOUSE MFG. CO.
3275 West 31st Street
CHICAGO, Ill.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.
W. H. ERNEST
28th & M Sts. Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass
For particulars address
John G. Esler, Sec'y Saddle River, N.J.

PEIRCE PAPER FLOWER POT

Replaces clay pot for transferring and delivery of plants without damage.

Under ordinary growing conditions will last two months or more in a greenhouse, making them available for growing many small plants.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
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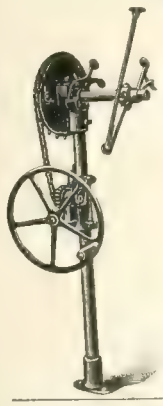
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Calceolarias.

These can be sown any time now and up to the last week in July and will make fine plants for next year. Prepare well-drained pans with plenty of crocks in the bottom and on this some coarse material, topped with a mixture of new soil three parts, leaf mold two parts, and sand one part. Fill up to within half an inch of the rim, press the compost firmly and soak it through with water. When they are drained sow thinly over the surface and press the seed gently into the fine mixture. Place in shade and when the seedlings are large enough to handle they can be pricked off into flats and placed in frames where they should be kept as cool as possible. Be careful as to watering, as calceolarias are very susceptible to damping off. When they are large enough pot into small pots, using a richer compost.

Eucharis amazonica.

Any grower who has not grown Eucharis amazonica should try a few. The culture is not at all difficult, and for anyone wishing to secure a few plants the present is a good time to begin. Eucharis can be cultivated in beds, benches or pots. For compost use fibrous loam, lumpy, dried cow manure, broken brick, charcoal and coarse sand. It it best to shake out the finer soil as what is needed is a porous soil through which water will pass readily. Established plants, started in midwinter and now coming out of 3 or 4 inch pots, are to be preferred. The plants must be shaded during the summer months and, except in the coldest winter weather, a light shade should be used, as bright sun turns the leaves a pale color. Pot-grown plants are best where only a few are to be grown. These can be rested easily and two crops yearly, and occasionally three, can be secured if they are treated rationally. In summer the pots do well plunged in frames. They make much finer growth here than in the greenhouses.

Ferns During the Summer.

All such ferns as Adiantum Croweanum, cuneatum and gracillimum; any of the pteris, cyrtomiums, polypodiums, davallias and nephrolepis—to say nothing of other varieties—will make much better growth in frames than greenhouses and will be more compact and stocky. Not only are the frames valuable for growing cyclamens, primulas, tuberous begonias and other flowering plants, but they are equally good for quantities of foliage plants, while for ferns of almost any kind they are away ahead of greenhouses. Try a few sashes of ferns this season and you will be so well pleased with the results that you will want to grow more in this way another year. If the needful head room does not exist it is easy to dig out the bottoms a little. Then give a light coating of fine coal ashes. To reduce watering they can, if necessary be plunged in partially decayed leaves, cocoanut fiber or coal ashes. The sashes, of course, must be well shaded, ventilation carefully given and the plants never allowed to suffer from lack of water.

Lycaste.

Lycaste Skinneri is the most lasting of orchids, as the flowers in winter will keep in good condition on the plants for from eight to twelve weeks. It is a terrestrial orchid and grows better in an equal mixture of fibrous loam and fern fiber than in one of pure fern fiber. Pots are the best receptacles and a winter minimum temperature of 50 to 55 degrees will be found about right. Lycaste Skinneri is an old orchid and not often seen in good condition. It is of easy culture and when reasonably well grown is far superior to many of the newer and more costly varieties of orchids which are being constantly placed on the market. Maintain a free circulation of air, keeping the atmosphere as cool and moist as possible and give them plenty of ventilation. Plants will now advance very rapidly, and in all weathers they must have every encouragement to promote quick growth by giving water liberally at the root and frequent damping down. No more shading should be used than is absolutely necessary to prevent burning.

Pruning Shrubs.

The proper time for the pruning or cutting back of overgrown shrubs as spiræas, lilacs, almonds, snowballs, etc., is right after blooming. All the spring-bloomers flower from the shoots made the previous season while the late summer and autumn flowering sorts require new young shoots for blooming. The pruning of the first named division consists of cutting out much of the older shoots, but not all, which will cause fresh growth for the next year's blooming. But the althaea, hydrangea, etc., should be well pruned in winter or early spring that strong new shoots may be produced. To do this properly takes considerable time and requires a good man. Many fine plants are spoiled by having some one trim them instead of pruning. Don't make the top of a plant look like a new broom.

Mr. Farrell's next notes will be on the following: Care of Violets; Cibotium Schiedei; Ferns for Ferneries; Primulas; Seasonable Repairs; Propagating Scented Geraniums.

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A moribund show

The annual "Rhododendron Show," which was held at Horticultural Hall, Boston, last Saturday and Sunday, while it was a very attractive and brilliant display of seasonable garden flowers, was a rhododendron show in name only. This annual event which some years ago was a superb array of hardy and tender varieties has now dwindled down until the name might as well be discontinued. Although a majority of the best rhododendrons were already past, this year, yet a grand showing might have been made if the spirit to do so had been alive. There are rhododendrons in and around Boston sufficient to cover the entire building with blooms, but unfortunately there are but few H. H. Hunnewells and F. B. Hayeses, aided and abetted by such rhododendron enthusiasts as the late F. L. Harris and James Comley. We should like to see the old interest revived. There is no subject more worthy of special attention than the rhododendron.

Wanted—a square deal

There will be a hearing before the Federal Horticultural Board at Washington June 22 on the proposition to extend the lines of the quarantine zone against the interstate shipment of nursery stock and greens from New England points and to include under the existing restrictions, during certain months, herbaceous plants and greenhouse-grown stock. A well-defined suspicion is growing in nursery trade circles in Massachusetts that a vein of sectional feeling underlies these repeated agitations and attacks upon the nursery shipping trade of New England. We trust the assumption is unfounded. There is business enough for all in this big country and the nurseries of the quarantined districts of New England will compare favorably with those of any other section of the country in cleanliness and freedom from insects or fungous pests. Federal inspectors have recently discovered brown-tail moths in importations from France to New York and gypsy moths in a shipment from Japan. Make a note of that. Massachusetts thoroughly believes in rigid inspection laws but most strenuously objects to being singled out for special castigation.

The tent caterpillar invasion

The entire country seems to be suffering from one of those periodic invasions of tent caterpillars which no scientist has been able to account for so far as we know. Welcome news comes from various sections in Massachusetts that the caterpillars are dying in their nests, by thousands, from the "wilt disease" which has proved so effective in checking the increase of the gypsy moth. We have also noticed in our own home garden that the birds, especially those two much condemned ones—the blue jay and English sparrow—are taking a lively part in clearing the trees of these caterpillars as well as also the canker worms which were plentiful this year. Thus Nature comes to the aid of man in his efforts to suppress these destructive pests. Our attention has been called to a poster recently issued from the office of the Secretary of the Massachusetts State Board of Agriculture in which the cutting and burning of "all useless apple and wild cherry trees" is advised as a means of warfare against the tent caterpillar. Perhaps those who advocate this course know what they are talking about and maybe we don't. But, in our way of thinking, the logical effect of destroying the useless apple trees would be to drive the moths to those trees that are *not* useless. That moth has to lay her eggs *somewhere*. The same line of argument applies to the wild cherries. The cherries don't *breed* the caterpillar but are selected by the egg-laying moths as a favorite breeding and feeding place. Allowed to grow freely along the roadsides would these trees not serve as an inducement to the pests to congregate where they can be easily despatched with poison sprays or other summary treatment? We have been interested in a report of the tent caterpillar egg-mass destroying contest started last November by the Connecticut Agricultural College. The winner of the $25 prize was a girl who collected 116,000 egg masses. Second and third scores were 101,100 and 94,290. The pupils of one school collected 229,920 egg masses, thus winning a summer-school scholarship for their teacher. As near as can be estimated, over 10,000,000 egg masses were collected through the efforts of the pupils of the state. These egg masses average 250 eggs each.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ružička

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Planting

With the middle of June already past, planting will be in full swing on most places. To have the work go along without a stop is the ambition of all, and how much better we do feel when the last wheelbarrow load of soil is put into the benches, and the last plant placed! In emptying the benches see that all old soil is removed. Scrape out clean under the benches, and carry all this out with the old soil. As soon as the benches are all emptied, wash them out thoroughly with the hose. It is best to follow with the whitewash as soon as the benches are washed, and while they are still wet. It is surprising how much easier it is to whitewash a bench that is wet, than one that is dry. The work does not wear out the brushes so much either, and it can be done in less time, with better work as a result. When the benches are whitewashed dry, there will always be some spots left that will not receive their coat of lime, and it will be just spots like these that will breed fungus to start at the young plants.

Copper Sulphate

Use a little copper sulphate in the lime, or else throw a few handfuls of sulphur into the lime barrel when it starts to slack. This should be stirred in well, and will help wonderfully in cleaning out the disease germs and fungus that may be hiding in the benches. The copper sulphate is very corrosive, and had better be dissolved in an earthen crock, and then added to the lime as it is needed.

Straw for the Benches

The straw that was saved (?) from the pot crates will come in real handy now to put into the benches to keep the soil from sifting through the cracks between the boards that form the necessary drainage. If no straw is on hand, grass will do, so will salt or bog hay, anything that is clean. It is not necessary to use very much of this material, just enough to cover the bench bottom very lightly.

Depth of Soil in Benches

This is very important, and should never be overlooked when the benches are filled. To have the benches too full may mean ruin or something almost as bad, and yet some growers are quite careless when it comes to this. We would never use more than four inches of good soil, with plenty of sod in it, and about one-third of the bulk in good, well rotted cow manure. In filling the bench have two men leveling, and see that the coarsest stuff goes to the bottom leaving at least one-half of an inch of fine soil on top. It is not necessary to have this too fine, as that would not be of any benefit, on the contrary may prove harmful. Firm the soil well right next to the bench sides. If this is not done, it will settle after a while, and will leave holes here and there. Where the houses are shaded in the winter as sometimes happens when they are built quite close together we would advise using even less than four inches of soil. More can be added at any time, when it is needed, but none can be taken away. When too much soil is used, the plants will be too wet biggest part of the time, and will not have the root system that plants which are easily controlled in watering, will have. Then when the foggy fall weather comes, the soil is very apt to turn sour, and will not dry out. This means soft and poor growth which will as likely as not get a dose of mildew.

Distribution of Plants

When setting the plants on the benches just before planting, see that the smallest and weakest of the lot are set in the first row, placing the next size in the next and so on, until the largest are placed in the very last row. If this is not done and the plants put in haphazard, there may be some regrets on the growers' part, for the plants will not start off the same, and will be more difficult to handle. Where it is possible to have them all the same size, there is nothing better, for then it is a very simple thing to water and feed and all the rest of the little happenings that fall to the plants' lot. It is a great mistake to plant the small plants among the big ones, thinking they have a better show. Put them by themselves somewhere, and give them a little extra care. If you mix the two the big strong vigorous plants will be held back by the poorer ones. Growers who grow a few more than they really need are wise, for they can then select the very best, and throw the rest away. It pays in the end to do this, too.

A NEW VOLUME OF HORTICULTURE

BEGINS JULY 1

¶ That will be a good time for new subscribers to get in line. Old subscribers can confer a favor on their friends, as well as on "Horticulture" by recommending this paper. Once a subscriber always a subscriber is usually applicable to those who read "Horticulture," as our office records show. If not already a member of "Horticulture's" rapidly growing family, you cannot make better use of a dollar, than by starting in now.

CLUBS AND SOCIETIES

AMERICAN PEONY SOCIETY.

Secretary A. P. Saunders' Address.

Mr. President, Fellow Members:

I congratulate you and the society as a whole on the completion of another successful year. Our membership is growing, our finances are improving, the reputation of the society is steadily widening, and peonies are as lovely as ever. Last year we added sixteen to our membership; the year before, thirteen; the year before that, eight. This year we shall add twenty. So not only does our membership grow, but even the rate of growth grows.

New American Varieties Needed.

I wish that in America we might have a larger and more ardent band of raisers of new sorts. There is still so much to be done. Lemoine and Dessert, to mention no others, are at work all the time, and give us wonderful new varieties once in a while; but there is need of a hundred such enthusiasts. I wish we might have seedling peonies raised here as they raise seedling narcissi in England, where amateur and professional raisers have their sensational novelties ready for the spring shows every year. Think what Richardson produced—one man working on a tiny plot of ground. Why should we not do at least much better than we are doing? This society might, I believe, do much to encourage the raising of new sorts. I should like to see a good substantial prize offered every year for the best new variety—say $50 at the least; not with the idea that we should have to pay it out every year, but under the intention that it should be given only for the occasional really good things, to be awarded, let us say, only to such varieties as the Nomenclature Committee would wish to put into their list of best sorts. Very few American kinds that I know of could get in on such a requirement, but such recognition as that would mean the reputation of the variety ready made.

Adopt a High Standard.

I believe we might foster in that way this infant industry and raise it up to a stage of importance in the horticultural community. The tradition of Richardson is bearing fruit in the neighborhood of Boston, where the Massachusetts Horticultural Society from time to time puts its stamp of approval on a new sort. But we cannot all get to the Boston shows, nor would the dates fall right for many of us if we could. Our own shows moving year after year north, south, east and west, offer an opportunity to almost everyone once in a while to bring out what he has. We have, I know, in the past suffered from an over-production of new kinds, or rather from an over-naming of new kinds. And our Nomenclature Committee has spent a good deal of time in examining and describing kinds that might much better have been confined to the originator's own premises. But I think those days are over, and it is just by setting up a high standard that we can prevent them from recurring.

Encourage the Amateur.

Now I know that the professional man often feels that he cannot be bothered with a batch of seedlings every year—they take too much attention. That may be true for him, but certainly for the amateur who does not have to look to his garden as a source of profit, it is always possible to set aside a corner for the "youngsters." Only it cannot be too often said that if he will avoid disappointments he must be very particular as to the source of his seed, and take only the very best.

These thoughts of the amateur's garden bring to my mind the fact that we have this year lost from our society one of its most enthusiastic amateur members, Wilton Lockwood, painter and lover of flowers. I suppose very few of us had ever met him. I do not think he had attended one of our meetings in many years; there were reasons why he could not come. But he was a garden lover of rare enthusiasm. Mr. Lockwood was famous not only as a painter of portraits, in which line he achieved great distinction, but particularly as a painter of flowers, peonies especially; and one of the notices of the memorial exhibition of his paintings held last spring in New York, speaking of his passion for the peony, says, "these flowers had a peculiar fascination for him, and canvas after canvas is given up to a study of their fragile loveliness." We cannot all have such gardens as Mr. Lockwood's, but the beauty of the peony we can all enjoy, and indeed I do not know what else has brought us all here today, except "their fragile loveliness."

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Ladies' Night was duly observed by this club on Tuesday evening, June 16. Considering that this was the date of Class Day at Harvard and other events of interest to different club members, the attendance was very good, over 200 being present. The lecture hall was used for the entertainment and dancing, and the large exhibition hall for the strawberries, cake and ice cream, which were served in generous quantities. The only address was made by President Kennedy who briefly voiced the welcome of the club and referring to the great coming event of the year, asked every member to constitute himself a committee of one to help make the S. A. F. convention a credit to Boston and to make the visitors who will come on that occassion feel at home. Mr. Singer contributed songs and two young ladies gave some fancy dances, after which dancing was participated in by the young folks until midnight. The affair was a great success.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

There was a large attendance at the monthly meeting of this society, held in Greenwich, Conn., June 12th. Letters were read from several friends of the society, offering substantial cash additions to the premium lists of the Summer and Fall Exhibitions. M. C. Ebel, who was present, gave an address on the National Association of Gardeners and after discussion it was unanimously decided by those present to co-operate with this body and support any movement tending to the advancement of horticulture and the profession generally. The president appointed a committee of three members who will endeavor to look after local conditions and work in conjunction with the national co-operative committee.

An interesting feature of this meeting was the competition open to assistant gardeners only for the silver and bronze medals offered by the H. F. Michell Co. for the best arranged centerpiece for dinner table. There were four contestants, each displaying tasteful and artistic work. First prize was awarded to David B. Ridpath of Mamaroneck, N. Y., assistant to James Stuart; 2nd to Andrew P. Clarkson of Portchester, N. Y., who is with Alex. Marshall. A hearty vote of thanks was awarded to Neil MacInnes of Mamaroneck, and to Adam Smith, of Rye, N. Y. The judges made the following awards to the other exhibits: Cultural certificates to Alex. Marshall for Miltonia vexillaria and cut spray of Cattleya Mendelli. Thos. Aicheson highly commended for Oncidium Wentworthianum. P. W. Popp, vote of thanks for Climbing American Beauty, a novelty of recent introduction. Next meeting July 10th. P. W. Popp.

LENOX (MASS.) HORTICULTURAL SOCIETY.

The regular monthly meeting of the above Society was held on Saturday evening, June 6th. A committee of three was appointed to cooperate with the National Association of Gardeners, namely: A. J. Loveless, E. Jenkins and S. W. Carlquist. Thos. Proctor was awarded a certificate of merit for Clarkia Queen Mary and a diploma for Clarkia Salmon Queen. Burton N. Gales, assistant professor in bee keeping at Massachusetts Agricultural College, gave a very interesting lecture entitled, "More Bees for Massachusetts." The speaker mentioned how valuable bees were to the fruit grower for fertilization of various fruits, such as melons, cranberries, etc. John Mair. Asst. Secy.

ST. LOUIS FLORIST CLUB.

The florist club meeting, June 11, was poorly attended. The trustees reported that all arrangements were complete for the anniversary banquet for Wednesday, June 24th at the Jefferson Hotel in the Floral Hall. State V. P. Windler of the S. A. F. reported as to the work he was doing and urged the members to make the trip to the convention at Boston. The Sunday

SANDER & SONS ORCHID GROUP, CHELSEA SHOW, LONDON, 1914.



The accompanying illustration conveys only a faint idea of the magnificent group of orchids by F. Sander & Son at the late Chelsea Show. They were awarded the gold medal, two first-class certificates, two awards of merit, and the Davidson cup, the latter being for the best Cattleya species in the exhibition (Cattleya Schroderæ var. Queen Empress).

The centre of the group consisted of specimens of Brasso-Cattleyas, in splendid varieties, many of them carrying 8 and 10 flowers, and on each side was a mass of soft rose and white color, produced by home-raised plants of Miltonia vexillaria, M. Bleuana, M. Hyeana, M. v. Solum, M. v. Laelia Sander, M. v. Dreadnought, M. v. Our Princess, etc. There were also splendid specimens of Laelio-Cattleya Hyeana splendens, and others. Scarlet and scarlet and white Odontiodas, arranged with white Phalænopses, and at the end masses of Cattleya Schroderæ, including C. Mendelii, C. Mossiae, etc., formed an admirable contrast to the red Renanthera Imschootiana, of which there were many splendid specimens.

Odontoglossums were dispersed throughout the entire group, of both species and hybrids, many of them new forms. The many hybrids raised by this firm attracted much attention, especially the Miltonia Warscewiczii crosses, including Odontonia Laelia Sander, O. St. Alban, O. Magali Sander, and O. Roger Sander. The charming white Trichopilias, suavis alba, and Backhouseana, in front of the group were very lovely in contrast with Renantheras, Miltonias and Phalaenopses.

closing question was brought up for discussion. The good and bad features were fully discussed and finally on a vote it was decided that the club indorse the movement of Sunday closing and that every one present should urge his neighbor to sign the petition. At the next meeting, July 9, nomination of officers, will take place.

CLUB AND SOCIETY NOTES.

Frank G. Cuthbertson, with C. C. Morse Co., San Francisco, will read a paper at the Sweet Pea Convention in New York, on "Sweet Peas—Past, Present and Future."

On June 12, M. C. Ebel, secretary of the National Association of Gardeners, gave an instructive address on "The Gardeners' Co-operative Movement," before the Westchester and Fairfield Horticultural Society at Greenwich, Conn.

The eighth annual exhibition of the Southampton Horticultural Society will take place at the Park Grounds, Southampton, N. Y., on Wednesday and Thursday, July 22d and 23d. One-half the net proceeds will be given to the Southampton Hospital. The schedule of prizes has been issued and copies may be had by writing to the secretary, Wm. Fitzpatrick.

The monthly meeting of the New London Horticultural Society was held Thursday 11th, when Miss Amy Cogswell presented an interesting paper on Old English Gardens and Old New England Gardens, the latter being chiefly those in Salem, Mass., which she said were well worth anybody's time to visit. Miss Cogswell gave an account of how the Old English gardens grew under the different kings and queens up to the time of Cromwell, who laid waste lots of gardens. The tables were well filled with flowers from the local gardens. The rooms were well filled by the members. Schedules can now be obtained for the coming shows by applying to Mr. Humphries, 38 Main street, New London.

H. LICKMAN.

Waterford, Ct.

At the monthly meeting of the Nassau County Horticultural Society, held June 10th at Glen Cove, N. Y., special prizes were received from Mr. A. G. Hodenpyle, Locust Valley, and Hitchings & Co. and John Scheepers & Co., the latter donating $50 for Darwin tulips for next spring's exhibition. Awards were made as follows:

F. Hoffman, 1st for H. P. roses; H. Jones, 1st for strawberries, and 1st for peonies. Honorable mention to H. Gaut for sweet peas, H. Boettcher for sweet peas and Aquilegia, Cutys after W. Cole, for asparagus. Cultural certificate to John Scheepers & Co. for peonies.

James Duthie, of Oyster Bay, gave an interesting and instructive address on Dahlias, which was very much enjoyed. Exhibits for next meeting, July 8th—12 white, 12 pink and 12 any other color sweet peas.

HARRY JONES, Corr. Sec'y.

This week the Pacific Coast Association of Nurserymen is in annual convention in Vancouver, B. C., the dates being June 15-18. The prospectus sent out by the Secretary-Treasurer said among other things the following:

"It is the expressed wish of the Oregon members that delegations from California, Nevada, Arizona, Utah and other sections will route via Portland, Seattle and Victoria, reaching the first mentioned not later than Sunday morning, June 14, 1914, that at least the major portion of the delegations from this side of the border will make the remainder of the journey in a body. The visitors are due to arrive at Victoria on the morning of the 15th where the entertainment committee of the British Columbia Association of Nurserymen will meet them and the delegation will be the guests of the public-spirited citizens of Victoria for the day, spending the interim in sightseeing, and in the evening will be entertained by a banquet at the Empress Hotel. From Victoria the party will take boat at 12 o'clock Monday night, arriving in Vancouver the following morning in readiness for the first session of the convention. Every day while in Vancouver there will be entertainments galore, including boat trips, auto trips and other things too numerous to mention."

Who wouldn't be a nurseryman?

Woodside, N. Y.—The greenhouses formerly used by Frank Weinberg for succulent plants is now being conducted by Malandre Bros., New York retailers.

MASSACHUSETTS HORTICULTURAL SOCIETY RHODODENDRON SHOW.

The exhibition given at Horticultural Hall, Boston, under the above name, on Saturday and Sunday, June 13 and 14, was a brilliant spectacle, filling the large exhibition hall with glowing color, but the display of rhododendrons was exceedingly meagre, the more prominent subjects being the German irises, peonies, hemerocallises and pyrethrums. Walter Hunnewell showed a table of one hundred vases of Rhododendron delicatissimum, a hybrid of maximum and Catawbiense, well known as one of the most reliable hardy sorts. T. C. Thurlow's Sons Co. showed six varieties, one truss of each and those were all.

Magnificent and extensive groups of hardy garden material were arranged by R. & J. Farquhar & Co., whose display won a silver medal, Mt. Desert Nurseries, which won honorable mention, Eastern Nurseries, which took first prize offered for twenty-five species and varieties—a tastily arranged and commendably labelled group, Old Town Nurseries and others. In all these groups the irises were a prominent component and in addition there were varied and beautiful iris collections from T. C. Thurlow's Sons Co., E. M. Dumphe and J. K. Alexander. Among the most lovely of the German irises included in these collections were Pallida Dalmatica in several varieties, Dalmatica purpurea being especially showy; Mme. Paquitte, claret rose; Mme. Chereau, white with blue edge; Clio, light and dark purple, falls white edged; Mrs. H. Darwin, white; Victorine, white and violet mottled; King of Iris, yellow and maroon; Lorelei, blue and cream; Rhein Nixe, white, with violet blue falls bordered with white; Gajus, crimson falls, with bright yellow edge; Gracchus, crimson and white; Maori King, crimson and yellow, falls margined gold; Garrick, Jenny Lind, Rose de Chine, Nibelengin and many other gems. Visitors flocked about the iris tables, busy with pencils and note books. Peonies were prominent on all sides and, besides appearing in the mixed groups, were shown separately by Mrs. J. L. Gardner, Wm. Whitman and Jas. McKissock, collections of seedlings being staged by Walter Hunnewell, Dr. Chas. Minot and G. W. Page. Seedling hemerocallis by G. W. Page, canterbury bells by Mrs. Fred Ayer, aquilegias in the Farquhar exhibit, eremuruses in the Mt. Desert group and pyrethrums and dianthus in the Old Town Nurseries display were all worthy of special notice: Jackson Dawson staged an interesting group of flowers of hardy rose species, seedling climbers, etc., which was awarded a certificate of merit. Miss Cornelia Warren, gard. Henry Stewart, showed a fine hydrangea group.

In tender material orchids were the principal factors. First and second prizes went to Mrs. J. L. Gardner, gard. Wm. Thatcher, for very extensive groups strong especially in Cattleyas, Miltonias, Phalaenopses and Calanthes. F. Dolansky showed a gigantic specimen Cattleya Mossiæ and two plants of Mossiæ Warneri. E. A. Clark, gard. Alex. McKay, was in with Dendrobium thyrsiflorum and Miss Warren staged a group of big Oncidium flexuosum, which was a show in itself.

There was the usual appetizing display of choice vegetables, a cultural certificate being awarded to Frank Wheeler for asparagus.

STONE AGE HUMOR.

There's an editorial note in last week's HORTICULTURE which I think is worthy of passing comment. You mention the happy way in which the members of the Nurserymen's Association mix relaxation with business. The editor seems to think well of it. I agree with him. It is a fine art. Most of the big successful concerns of the country have made it a study and the effectiveness of their putting the idea into practice has been the G. E. R. (generation equals results) or else there's something wrong. It is far from easy to put a correct theory into correct practice. James Watt tried all his life to put his theory of the steam engine into practice, and he vastly improved as the years rolled by. His successors are still improving on the practice, but the theory remains the same, and that theory of the steam engine has revolutionized the world. It has shortened distance and multiplied production during the past hundred years to the extent that few of us trace to its source—James Watt's theory. This is merely by way of illustrating that the theory of mixing relaxation with business is one of the finest of fine arts and only the highest intellects in our profession have a clear conception of it. The idea of a committee of a trade club putting at the end of their outing circular "anyone who talks business will be fined five dollars." That's silly and shows a lack of understanding of human nature. If I share joys with my brothers I must also share in their sorrows. There is no picture without light and shade. Consequently when we go to a picnic the thing to do is to be natural and talk about whatever sufficiently interests us. There is just as much enjoyment to be found in talking business as there is to be found in talking religion or politics or sport. But I presume the remark I refer to was not directed at a moderate well balanced personality that takes everything in moderation, but at those men who carry whatever they do to excess. Some eat to excess; others dress to excess; some push business to excess. They will try to sell a man a bill of goods on the picnic grounds with no more manners than a curbstone peddler. Fortunately there are few like that in our trade bodies and the small percentage there is does not justify any committee in stigmatizing the majority of the members who are well balanced and know better. The remark was probably put in as humorous. If so—it was of the stone age brand.

P. S.—Your scribe passed through Michell's this afternoon. Fred. Michell, Junior, is one of the committee whose name is signed to that $5.00 fine rule for talking business at the picnic. A bundle of bags and a wheelbarrow wanted the right of way. We courteously stepped aside. The youthful Fred. explained these items were for the sack and wheelbarrow races at the outing. The bags were stamped in letters nearly a foot high, "Michell's Reliable Seeds." If that isn't talking business in large caps, what is it? And by one of the committee, at that! The blaze on the bags blinded us for the minute, so we did not see the name on the barrow, but no doubt it was equally fineable. Two fives, please. Cough up!

GEORGE C. WATSON.

WAR ON CATERPILLARS.

There was a great clean-up of moths and caterpillars in Revere, Mass., on Saturday, June 13. The presence of these pests on private grounds and in orchards became a positive nuisance and the new Civic Club of Revere perfected plans to form an organization to war on the insects.

The principal of every school centre was made a field secretary and the town was blocked out in squares. Companies of 10 were next chosen, with a leader for each company. The Scout Masters had supervision of their respective territories.

At 8 o'clock in the morning the war began and at noon thousands of nests of caterpillars were destroyed. It was the greatest clean-up ever made in Revere and will, undoubtedly, benefit the owners of orchards, as well as the farmers, many thousand dollars.

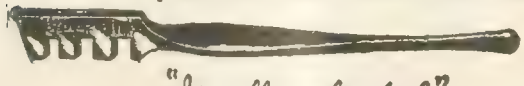
HOW TO CHECK THRIPS ON GRAPE VINE.

Referring to the query, on this topic, on page 869, issue of June 6, a well-informed gardener gives the following additional advice.

First buy from your seedsman vaporizing fumigator and lamp. Half fill the lamp with wood alcohol. Light and place on the floor at the lowest point. Place the shield with cup on top over your lamp. Then fill the cup with nicoticide, taking care not to over fill, otherwise it will boil over and catch fire. The small size lamp will fumigate 2,000 cubic feet, the large size will fumigate 5,000 cubic feet. Repeat this for two nights, and be sure the house is closed tight.

A postal from James McHutchison, dated at Melbourne, Vic., reads as follows: "Best wishes from this fine city with the beautiful gardens—better, I think, than any I have ever been in.

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10,000 Own Root Rose Plants; ready for immediate delivery and benching. Grown Right. Packed Right
ALL RIGHT! $80.00 per thousand ALL RIGHT!
CHARLES H. TOTTY
MADISON, N. J.

TARRYTOWN HORTICULTURAL SOCIETY.

The Sixteenth Annual June Exhibition of the Tarrytown Horticultural Society was held in F. R. Pierson's new floral building on the 16th inst. The exhibition opened to the public at 2 P. M., and remained open until late in the evening. The exhibits of roses, strawberries, and hardy outdoor flowers were particularly fine. In the strawberries, a variety called Barrymore was the largest and finest shown. In addition to the display of roses and sweet peas, which were up to the usual standard of excellence, there were exhibits of numerous hardy perennials, and palms and ferns supplied by F. R. Pierson. The vegetable exhibits, also, were very fine.

The Society is greatly indebted to Mr. Pierson for the use of his new building in which to stage the exhibits. It made a magnificent setting for the flowers, enhancing their beauty to a very great extent. The attendance was the largest in the history of the Society. People were present from all parts of Westchester County, and even from New York City. It is estimated that a thousand passed through the building from the opening to the close of the exhibition. For a place the size of Tarrytown, this was a remarkable attendance, showing the interest of the public in an exhibition of this kind.

The Garden Association in Newport and the Newport Horticultural Society will hold their second annual open-air flower show on the grounds of Hon. George Peabody Wetmore, Bellevue avenue, Newport, R. I., on Wednesday, Thursday and Friday, June 24, 25 and 26, 1914. The show will open on Wednesday at 2 p. m. and close daily at 8 p. m. Premium list may be had on application to William Gray, care of Mrs. Leeds, Bellevue avenue. Admission, Wednesday, $1, Thursday and Friday, 25c. Music and tea each day, from 4 to 5 p. m.

Obituary

Stanley Knaflewski.

Stanley Knaflewski, of the Hamilton Floral Company, 2321 North Hamilton avenue, Chicago, Ill., committed suicide on Sunday, June 7th. Business troubles prompted the suicide. He was forty-two years of age and married.

Cornelius A. Sullivan.

Cornelius A. Sullivan, for many years an employ in the florist establishment of Louis Menand, Albany, died on June 3 at Saranac Lake, at the age of 45 years. He was a native of Albany and well known and highly regarded in the local florist trade.

William F. Bassett.

William F. Bassett, 89 years old, a well-known dahlia grower and one of the pioneer residents of Hammonton, N. J., died on June 7. He had been in fair health until Sunday morning, when he was found dead in a chair by his wife when she returned from church.

For 70 years he has been engaged in the growing of dahlias. He was the originator of many of the new varieties of the last 30 years. His widow, a daughter and two sons survive.

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POPAYAN TYPE TRIANAE, Old Coast Variety, by case or dozen.
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FALL RIVER, MASS.

ORCHIDS FRESHLY IMPORTED
We have unpacked the following in fine condition. CATTLEYAS: Percivalliana, Gaskelliana, speciosissima. DENDROBIUMS: Formosum, Wardianum, nobile, densiflorum, Schuitzii. VANDAS: Coerulea, Batemannii, Luzonica, Imschootiana. PHALAENOPSIS: amabilis, Schilleriana. Spathoglottis plicata.
Write for Special List No. 55.
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This collection, the only one of its kind in the world, obtained the highest award at the International Exhibition at Ghent, Belgium. Exhibited by itself it will enrapture everyone who views it. Average circumference of the plants, 9 feet. Suitable for private collection, park or estate.

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HYDRANGEAS

EXTRA LARGE PLANTS IN TUBS AND BARRELS FOR SUMMER FLOWERING

We make a specialty of hydrangeas, and have a very large stock of plants which have been kept backward and which are now just beginning to set buds. They are in fine shape for shipment, and will bloom from June to August. Plants are heavily budded, and are exceptionally good value.

We have always made a specialty of large hydrangeas for summer-blooming, and we never had such a fine stock as we have at this time. We have a very large stock, especially of the plants in barrels, and can supply carload lots.

Fine plants in tubs.....$2.00 and $3.00 each.
Extra fine specimens in half-barrels.....$5.00, $7.50 and $10.00 each.

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ROSES, PALMS,
and Novelties in Decorative Plants.
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FOR FALL DELIVERY.
GERMAN IRIS in Endless Varieties.
LILIUMS HENRYI AND TENUIFOLIUM in Endless Quantities.
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Flowering, Decorative and Vegetable Plants
In abundance Always on Hand. See our Display Advertisement in "Horticulture," May 23rd, Page 768.
Correspondence Solicited.
ALONZO J. BRYAN
Wholesale Florist, WASHINGTON, N. J.

HYDRANGEA CUTTINGS, very strong and well rooted, in 2½ inch pots; Avalanche, Bouquet Rose, $6.00 per 100; General de Vibraye, Souvenir de Chantard, Radiant, $8.00 per 100.
LILY OF THE VALLEY, cut, I can furnish you all year around. First-class, extra selected valley, $4.00 and $3.00 per 100.
Cash or satisfactory reference.
ANTON SCHULTHEIS, College Point, L. I., N. Y.

VINCA VAR.
4 in. Heavy and Long.....$14.00 per 100
4 in. Medium Long..... 12.00 per 100
4 in. Stocky ..... 10.00 per 100
CASH, PLEASE.
WILLIAM CAPSTICK, Auburndale, Mass.
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SEED TRADE

The Convention.

We assume it is generally understood that the American Seed Trade Association convenes in Washington Tuesday next, continuing Wednesday and Thursday. Those who have not secured rooms should lose no time in doing so, for as Congress is still in session, the leading hotels will be well filled. If next week will be as delightfully cool as the week just ending it will add greatly to the comfort of the delegates. Our Washington friends have assured us that their city is a very fine summer resort, with a most equable climate, and we expect them to prove it.

The Canners in 1915.

Speaking of conventions, our Canner friends seem to be experiencing much difficulty in locating their 1915 convention. Up to the time that San Francisco was eliminated no other city had received any consideration, and it was necessary to investigate the facilities of each one extending an invitation to test their hospitality in 1915. Because of the lateness in the season and the difficulty in getting the committee on location together, matters have apparently been drifting, and up to this date no selection has been made. We learn that New York City is a bidder and the difficulty in ascertaining just what facilities our great metropolis has to offer has been one of the factors in delaying a decision. It is reported that many of the members, comprising the three associations, which make up the annual Canners' Convention, are very much dissatisfied by the delay of their committee in locating the convention, but we feel justified in saying that they have had an unusually difficult problem to solve.

Crop Conditions.

We have been endeavoring to secure information from seed growers, both in this country and Europe, and are able to give general conditions at this date, which we believe to be substantially accurate: Peas: the acreage planted for seed is materially smaller than a year ago, and while general conditions are favorable, there has been a frost in Idaho sufficiently severe to kill all tender vegetation, and to quite seriously damage all peas in blossom or where the pods had already set. Where these crops are grown under irrigation it has been learned that a prompt application of water following a freeze will largely counteract the effects, and the results of the recent frost cannot be known for some weeks to come. It may be taken for granted, however, that more or less damage has resulted. It is not unusual for frost to visit these northern states in midsummer, but it is seldom that a killing frost is experienced in June. It is to be hoped that the annual July frosts will not appear this year. Beans: No estimates are possible on beans, as they are hardly more than out of the ground, but fortunately not many are grown in the northwest where most of the seed peas are grown. Corn is much in the same condition, or class as beans, and it will not be

BODDINGTON'S QUALITY FLOWER SEEDS

SELECTED SEEDS SUCCESSFULLY SOWN SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

IT has been, is, and always will be our policy and intention to disseminate only the very choicest strains of flowering seeds (or any other varieties of seed), giving special attention to the class known as **Florists' Seeds**, and intending customers need have no hesitation in buying or fear of disappointment when they bloom. No expense has been spared to secure the finest types as to habit of plant, form of flower, color and breeding of our **Quality Strains of Primula, Cineraria, Cyclamen, Calceolaria, etc.**

ASPARAGUS

PLUMOSUS NANUS. True greenhouse grown. 50 cts. per 100 seeds; $1.00 for 250 seeds; $3.50 per 1000 seeds.

PLUMOSUS NANUS. California grown. 50 cts. per 100 seeds, 75 cts. for 250 seeds; $2.50 per 1000 seeds.

SPRENGERI. 25 cts. for 250 seeds; 75 cts. per 1000 seeds, $3.00 for 5000 seeds.

CALCEOLARIA HYBRIDA

BODDINGTON'S PERFECTION. The herbaceous Calceolaria is an easily cultivated plant. So long as frost is excluded from the plants in Winter they are perfectly safe, and to attempt to hasten growth at any time is a failure. July is the best month for sowing the seed. The great advance made in the habit of the strains offered is remarkable, whilst in the colors there is a marked improvement. Saved by England's most famous specialists. Monster flowers of rich and varied colors, including spotted, laced, blotched and self-colored varieties. ½ pkt., 60 cts.; pkt., $1.00.

Boddington's Matchless CINERARIAS

BODDINGTON'S MATCHLESS CINERARIA. A combination of the three most famous English strains, which we can recommend to those wishing to grow the best. **Tall,** ½ trade pkt., 60 cts.; trade pkt., $1.00. **Dwarf,** ½ trade pkt., 60 cts.; trade pkt., $1.00.

CINERARIA STELLATA (Star-flowering Cineraria). Tall growing, 4 to 5 feet; excellent as a single specimen for table decoration, or for grouping with splendid effect in corridors and conservatories. ½ trade pkt., 60 cts.; trade pkt., $1.00.

CANDYTUFT (Iberis) H. A.

BODDINGTON'S GIANT HYACINTH-FLOWERED. Large, pure white, spiral spikes. The finest variety for growing under glass. Trade pkt., 35 cts.; oz., $2.00.

MIGNONETTE H. A.

BODDINGTON'S MAJESTY. The finest of all the fancy varieties of Migonette; an improvement on Allen's Defiance. Seed saved from select spikes under glass. Trade pkt., 60 cts.; ⅛ oz., $1.00; oz., $7.50.

BODDINGTON'S POT MYOSOTIS

Forget-Me-Nots are delightful subjects for flowering indoors at Christmas time, and as they are everywhere welcome, the practice of growing plants in pots is rapidly increasing. Sown in July and potted on, the strain we offer produces fine, free-growing specimen plants. Trade pkt., 50 cts.; 3 pkts. for $1.25.

SCHIZANTHUS (Butterfly Flower) H. A. 1½ ft.

Elegant, free flowering, hardy annuals for the garden in Summer or for pot culture in the greenhouse during Winter.

GRANDIFLORUS BODDINGTONII. Boddington's Select Hybrids. The strain is superior to any of the Schizanthus in cultivation, the flowers are better shaped and the colors are more varied. In habit the plants are very bushy, and the flowers are invaluable for cutting; as a pot plant for conservatory decoration, they are unequaled. Trade pkt., 75 cts.

WISETONENSIS. The colors are varied, ranging from white with yellow center to pink with brown center. Most useful as a Winter plant, and should be given a place in every greenhouse. Trade pkt., 50 cts.

Boddington's Matchless GIANT PRIMULAS

PRIMULA SINENSIS

Boddington's Matchless Giant Primulas, Mixed. This selection includes all the finest Giant Single Primulas of the plain-leaved class. ½ trade pkt., 60 cts.; trade pkt., $1.00.

Boddington's Matchless Giant Pure White; Boddington's Matchless Giant Blush White; Boddington's Matchless Giant Orange King, a delightful novelty, almost orange; **Boddington's Matchless Giant Rose; Boddington's Matchless Giant Scarlet; Boddington's Matchless Giant Royal Blue.**

Each, ½ trade pkt., 60 cts.; trade pkt., $1.00. Collection of the above 6 varieties, ½ trade pkt., each, for $3.50.

The Duchess. The large, pure white flower, with its unique zone of bright, rosy carmine, surrounding a clear yellow eye, is simply unapproachable in its beauty. ½ trade pkt., 60 cts.; trade pkt., $1.00.

Sutton's Coral Pink. The name describes it; habit dwarf and compact; flowers thrown well above foliage. Pkt., $1.00.

PRIMULA OBCONICA GIGANTEA

Primula obconica gigantea Kermesina. Beautiful, deep crimson.

Primula obconica gigantea alba. The pure white flowers greatly enhance the beauty of the existing lilac, rose and crimson shades.

Primula obconica gigantea lilacina. Beautiful lilac.

Primula obconica gigantea rosea. Lovely rose.

Primula obconica gigantea grandiflora. Mixed varieties, pure white to deep crimson.

Each of above, ½ pkt., 30 cts.; pkt., 50 cts.

PRIMULA floribunda grandiflora (Buttercup). Small yellow flowers, borne in great profusion; fine for pots. Pkt., 50 cts. **Forbesii** (Baby Primrose). Pkt., 25 cts.

PRIMULA KEWENSIS (Giant Buttercup). This plant is a strong grower, with bright green leaves and numerous erect flower-scapes, 10 to 18 inches in height, producing flowers in whorls at intervals along their whole length. The flowers are fragrant, bright yellow in color, with a slender tube and spreading limb nearly an inch in diameter. As a Winter flowering decorative plant it is an acquisition; very floriferous when in a small state. ½ trade pkt., 60 cts.; pkt., $1.00.

PRIMULA FIMBRIATA, GIANT QUEEN ALEXANDRA. G. P. The largest white Primula Sinensis, blooms measuring 2½ inches across. Petals very solid and erect. Robust foliage with red stems. ½ pkt., 60 cts.; trade pkt., $1.00.

PRIMULA, NEW HYBRID QUEEN OF ROSES. A lovely new hybrid of P. obconica and P. stellata, producing shapely heads of large and beautiful, bright rose colored flowers, remaining decorative for a long time. 1 foot. Trade pkt., $1.00; ½ pkt., 60 cts.

PRIMULA MALACOIDES. H. H. P. (The Giant Baby Primrose.) The plants branch very freely. The flowers, which are ¾ inch wide, are of a pretty light lilac, and are borne in whorls on long stems. If grown in a greenhouse, can be had in bloom in four months after sowing. Trade pkt., 40 cts.; 3 pkts. for $1.25.

PRIMULA MALACOIDES ALBA. The white prototype of the foregoing variety and a great acquisition; very chaste and beautiful. A plant or cut flower. Trade pkt., 50 cts.; 3 pkts. for $1.25.

ARTHUR T. BODDINGTON, Seedsman **342 West 14th St. New York City**

before midsummer that any forecast of these crops will be of any value.

As to California crops, onion seed is estimated at from two-thirds to three-fourths of an average yield, lettuce about the same, and we may include under this heading, carrots, table beets and some less important items, such as kale, etc. Cabbage, with the exception of Danish ballhead, will be little better than two-thirds of a crop. Radish will be from three-fourths to full, salsify the same, while parsley and mangels will be practically full. These estimates cover not only California, but the general European and American conditions. We understand sweet peas will be very short, estimates being about fifty per cent of an average, while Golden Self Blanching celery will be very short as usual. The French grown seed probably will not be much better than one-quarter of a crop. Other varieties of celery will range from half to three-fourths.

From now on we shall endeavor to keep our readers as accurately informed of crop conditions as possible, and as we have generally exceptionally well informed correspondents, our crop news may be accepted as reliable. As has been predicted, trade which opened late this year (we refer ta counter and local trade) has held up well and there has been greater activity than usual at this season of the year. Trade, however, has been easing off quite rapidly within the past week or ten days, and at this date business is general confined to seasonable products.

Notes.

The St. Louis Seed Co. gave their employes an outing at Waterloo, Ill., on Sunday, June 14, when the entire force and the officers attended. The affair was managed by H. Hummert, vice-president of the company. The weather was fine and everybody had a good time.

A rumor that Mr. F. B. Mills, of Rose Hill, N. Y., the well known mail order seedsman, had decided to dispose of his seed business, and go west to engage in some other line, is emphatically denied by Mr. Mills, who reports a very satisfactory season's business. After nearly a quarter of a century of well-directed effort, Mr. Mills has established a fine mail order business and it is incredible that he would sacrifice it for a, to him, new and untried line.

TWO SERIOUS BEAN DISEASES.

The office of information, U. S. Dept. of Agriculture, has sent out a bulletin on the blight and anthracnose of garden and field beans, which caused a loss in Michigan alone estimated at $2,000,000, or 20 per cent of the crop of 1913, from which we take the following extracts. It is becoming more difficult each year to secure bean seed free from one or both of these diseases and it becomes highly important that the diseases be more thoroughly recognized and that the best available methods of control, some of which must be begun in the early cultivation of the plants, be understood and put into practice.

Bean Anthracnose.

Bean anthracnose is caused by a fungus which attacks the stems, leaves, pods and seeds of the plants. On the stems and leaf veins it causes elongated, sunken, dark-red cankers, sometimes killing young plants and often producing deformed and yellowed leaves. Rounded or irregular sunken spots with a slightly raised rim are produced on the pods, the fungus sometimes penetrating the pods and entering the seed, causing dark, sunken specks or spots. In these diseased seed as well as in the refuse from diseased plants the fungus is propagated from season to season.

Bean Blight.

The bean blight is caused by a bacterial organism. On the leaves it produces irregular, diseased areas which at first have a water-soaked appearance, later dry out and become brown and brittle. The entire margin, or half of a leaflet is often affected. On the pods the disease starts as slightly raised and watery pustules, which later enlarge, become of irregular shape and amber color with yellow centers. Infected seed show yellow diseased blotches or are entirely yellowed and shriveled.

Nature of Loss.

Both diseases cause serious losses in the snap bean trade. Diseased pods are unmarketable and must be sorted out. If but a few slightly spotted pods are packed in a basket, the disease may spread during shipment. In the seed bean trade all beans must be hand-picked to get out the discolored diseased seeds, involving heavy loss of beans as well as the cost of sorting.

Control Measures.

Anthracnose can be avoided by a careful system of seed selection. Save seed from pods selected with great care for entire absence of spotting. Shell by hand to avoid reinfection, and plant on clean land. Pull and burn any plants showing disease.

In the absence of such disease-free seed (1) secure for planting, seed having the least possible amount of disease; (2) all seed should be hand-picked and no seed showing the slightest discoloration should be planted; (3) never plant beans on land where the same crop grew the previous season; (4) do not cultivate or walk through the bean field or pick beans while wet with dew or rain. The bean blight is more difficult to control than anthracnose, but the same methods will give the best results at present available.

Painesville, O.—R. E. Jackson and H. C. Bickle have entered the nursery business.

JAMES VICK'S SONS

SEEDSMEN

ROCHESTER, NEW YORK

"FLORISTS' SEEDS"

Write for import prices on bulbs.

VEGETABLE PLANTS

CABBAGE—Jersey & Chas. Wakefield, All Head, Early & Late Flat Dutch, and other varieties at 20c. per 100; 75c. for 500; $1.00 per 1000; 10,000 and over at 85c. per 1000.

LETTUCE—Grand Rapids, Boston Market & Big Boston, 20c. per 100; 75c. for 500; $1.00 per 1000. Cash with Order.

R. VINCENT, JR. & SONS CO.
White Marsh, Md.

MICHELL'S

FLOWER SEEDS

SOW NOW

CALCEOLARIA

	½ Trade Pkt.	Trade Pkt.
Grandiflora, Tall Mixed..	$.60	$1.00
" Dwarf.....	.60	1.00

CINERARIA

Grandiflora, Prize Dwarf.	.60	1.00
" " Med. Tall	.60	1.00
James' Giant Strain.....	.60	1.00

PRIMULA CHINENSIS

Alba Magnifica.....	.60	1.00
Chiswick Red.....	.60	1.00
Duchess	.60	1.00
Holborn Blue.....	.60	1.00
Kermesina Splendens....	.60	1.00
Rosy Morn.....	.60	1.00
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Primula Obconica Gigantea

Lilacina, Lilac.....	.50
Kermesina, Crimson.....	.50
Rosea, Pink.....	.50
Alba, White.....	.50
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Flower Seed Specialists

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Kelway & Son

Wholesale Growers to the Trade of

Choice Stocks of

GARDEN, FARM

AND

FLOWER SEEDS

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California Seed Growers Association, Inc.

Growers For Wholesale Dealers

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NEW CROP SEEDS

FOR FLORISTS

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47-54 No. Market St., BOSTON, MASS.

NEW and RARE PLANTS FROM CHINA

It is not too late to order these recent introductions as we have nearly all of the varieties pot-grown for planting now.

Catalogue with complete descriptions on request

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6 South Market Street, - - Boston, Mass.

STRAWBERRY PLANTS

POT GROWN

New and Standard Varieties. Ready for Shipment June 15th

Write for our midsummer Price List mailed free

BURNETT BROS.

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98 Chambers St., NEW YORK

SEEDS for the FLORIST

HIGHEST GRADE SEEDS — FOTTLER FISKE RAWSON CO. — BOSTON

ASTERS—Rawson's Mid-summer

Flowers early in August and continues until frost. Bright Rose, Purple, Lavender, Shell Pink, Pure White, Finest Mixed

Trade Pkt. 35c.; Oz. $2.00

Sweet Peas, Cyclamen, Petunia, Verbena, Lily of the Valley from our own Cold Storage Plant. Our trade list mailed on application

FOTTLER, FISKE, RAWSON CO., THE SEED STORE Faneuil Hall Square, **BOSTON**

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO ONION SETS

Write for Prices

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO

ORDERS SOLICITED

The Lily Without a Peer

MEYER'S T BRAND

Formosums GIGANTEUMS Multiflorum

CORP. OF CHAS. F. MEYER

99 Warren St., New York

New Price List of My

Winter Flowering Spencer Sweet Peas

WIEL SOON BE OUT

If you are interested in this line, send your name

ANT. C. ZVOLANEK

Lompoc, Cal.

New Crop Seeds

FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.

STAMFORD, CONN.

All Seeds and Bulbs sold by Thorburn are always of the very highest quality and true to name.

ASPARAGUS

Plumosus Nanus

	Per 1,000
1,000	$2.00
5,000	1.75
10,000	1.65

TUBEROSES

Dwarf Double Pearl

Extra large size

$7.50 per 1000

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"The most reliable seeds"

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"SEEDS WITH A LINEAGE"

Seeds with a generation of finest flowers and vegetables back of them—carefully selected—really tested.

Write today for Catalog.

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BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

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GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS 82 Dey St., NEW YORK and ORANGE, CONN.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

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FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones: Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

Woodside, N. Y.—Spiwak & Newman have dissolved partnership. The business is now being conducted by Wm. Spiwak.

New Philadelphia, O.—The Denison Floral Company has been purchased by Endres Bros. and the name will be changed to the Twin City Floral Company.

STEAMER DEPARTURES

Allan.

Pretoria, Boston-Glasgow.....July 1

American.

New York, N. Y.-S'hampton..June 26
St. Paul, N. Y. S'hampton.....July 3

Atlantic Transport.

Minneapolis, N. Y.-London...June 27
Minnewaska, N. Y.-London...July 4

Cunard.

Lusitania, N. Y.-Liverpool....June 23
Laconia, Boston Liverpool....June 23
Carmania, Boston-Liverpool..June 30
Aquitania, N. Y.-Liverpool...July 1
Ivernia, N. Y.-Mediterranean.July 1

French.

France, N. Y.-Havre.....June 24
Mexico, N. Y.-Havre.....July 4

Holland-America.

Ryndam, N. Y.-Rotterdam....June 23
Rotterdam, N. Y.-Rotterdam.June 30

Hamburg-American.

Pennsylvania, N. Y.-Hamb'g..June 25
Imperator, N. Y.-Hamburg...June 27
Amerika, Boston-Hamburg...June 30
Pres. Lincoln, N. Y.-Hamb'g..July 2

Leyland.

Devonian, Boston-Liverpool..June 27
Canadian, Boston-Liverpool..July 4

North German Lloyd.

K. W. der Grosse, N. Y.-B'm'n.June 23
Pr. Fr. Wilhelm N. Y.-B'm'n..June 27
P'zess Irene, N. Y.-Mediter'n..July 4

Red Star.

Zeeland, N. Y.-Antwerp.....June 27
Kroonland, N. Y.-Antwerp....July 4

White Star.

Arabic, Boston-Liverpool.....June 23
Adriatic, N. Y.-Liverpool.....June 25
Majestic, N. Y.-Southampton.June 27
Cretic, Boston-Medit'ranean..June 27
Baltic, N. Y.-Liverpool.....July 2
Oceanic, N. Y.-Southampton..July 4

New York, N. Y.—The firm of Monroe & Reynolds, wholesalers at 111 West 28th street, has been dissolved. J. J. Reynolds is succeeded in the firm by Chas. D. Dorst.

Aberdeen, S. D.—The Strohmeier Floral Company has been purchased by Miss Beth Youreman and Mrs. Kronenberger, who will conduct the business under the old name.

Lawrence, Mass. — Thornton Bros. will move across the street from the store they have occupied many years for the flower and seed business to a new and commodious location in the New Oswald block.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries
Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

G. E. M. STUMPP
761 Fifth Ave.
NEW YORK CITY
Member Florists' Telegraph Delivery Asso.

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Established 1874
DARDS
FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

NEW YORK CITY
AND VICINITY
A. WARENDORFF
Artistic Work. Reasonable Prices.
Prompt Delivery of Steamer Orders.
1193 Broadway, My Only Store

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

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ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
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BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston



WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

New York. Washington, D. C.
J. H. SMALL & SONS
FLORISTS
NEW YORK, 1153 Broadway, WASHINGTON, D. C. Cor. 15th & H. Sts.
AND WALDORF-ASTORIA.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

ST. LOUIS, MO.
FRED C. WEBER
4326-28 Olive St.
Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
TORONTO
Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

Louisville, Ky.—F. Walker Company.

Rockland, Me.—Miss Harriet M. Silsby.

Greensboro, N. C.—Greensboro Floral Company, 211 S. Elm street.

Philadelphia, Pa.—Frank Verona, to open plant department in store of Schellenberg & Company about September 1st.

Norristown, Pa.—Damage to the extent of $50 was sustained in the flower store of Devine & Crawford on Monday, June 9th. The cause was a boy who wanted to see if the artificial flowers would burn and touched a cigarette to them.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
37-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy stock, and prompt deliveries in BUFFALO, LOCKPORT, NIAGARA FALLS and WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

KNOXVILLE, TENN., NOTES.

Crouch's report that the demand for bedding plants was much heavier this year than usual, and all are practically sold out clean in that line.

Addison J. McNutt has just installed a new refrigerator, which adds a great attraction to his place and shows off his stock to good advantage.

The Knoxville Florists' Society met on Tuesday night, June 2nd, at C. W. Crouch's store on Gay street. A very enthusiastic meeting was held and it was unanimously decided that all stores be closed on July 9th, to have our first annual picnic. Committees were appointed on grounds and advertising.

Weather extra dry; in fact, if we do not get rain in a very short time everything out of doors will be ruined. This is the longest drought ever known in this section that we have any record of. It has also been very hot, the thermometer ranging from 95 to 105 degrees, which is very unusual. This dry weather is working a hardship on our market gardeners especially, and our local market, which is considered one of the best in the South, is very short and prices are just about double what they usually are.

On account of the exceedingly hot and dry weather Chas. L. Baum was forced to discontinue the shipping of carnations to the South. This week will about wind up all carnations, as the old plants are being thrown out and new stock planted in. Roses are going off crop after cutting heavily for the last four weeks. Mr. Baum contends that the bedding plant business is slightly a separate line and does not go well with the cut flower trade and intends to put the space occupied by plants into carnations and chrysanthemums and figures it will pay him twice as well.

Miss Ethel Lawrence, of the Lawrence Floral Company, Atlanta, Ga., on her vacation, spent ten days in Knoxville with Mr. and Mrs. Karl P. Baum. She left for Asheville, N. C., where she spends a week, and then goes to Spartanburg for a few days, thence home. Miss Lawrence reports the weather very hot and dry in Georgia. Miss Lawrence was a visitor to our last Florists' Society meeting. Mr. Sanders, representing Poehlmann Brothers, Chicago, Ill., and A. J. Keroes, representing Climax Mfg. Co., Castorland, N. Y., called upon the trade in the last few days.

WASHINGTON NOTES.

A fine new cement flooring has been laid in the store of Marche & Co., and this without interruption to business. A start on the work was made on Saturday night and the cement allowed to dry over Sunday.

Lightning last week struck the fuel shed on the J. R. Freeman property at Georgia Avenue and Dahlia Street and caused a slight conflagration. The storm was a very severe one and put a number of telephone wires out of commission.

Washington merchants lost out in their long fight for a continuation of the free store-door delivery service formerly furnished by the railroads and which had been enjoyed for a period of about thirty years. It was the contention of the business interests that the withdrawal of this service from New England and eastern points constituted an increase in freight rates, but this fact was denied by the Interstate Commerce Commission. Their decision applies as well to Baltimore which city had also protested against the action of the railroads.

Sunday last was observed by the Odd Fellows of the District of Columbia as Memorial Day and suitable exercises were held in their hall on Seventh Street. The huge columns in the auditorium were surmounted by three feet amphion wreaths and were surrounded by large palms. On the stage was a rail against which rested twenty-two 28-inch wreaths of ivy leaves and white flowers, with the name of each lodge here worked in purple immortelles. The work was that of Gude Bros. Co., who also were the decorators on the occasion of the McLean-Thompson wedding in St. Thomas Episcopal Church. The entire chancel and music loft were banked with Cybotium Schiedei, and along the walls were large palms. The altar was banked with Kaiserin roses and white snapdragons, and every pew in the church was decorated with a bunch of white peonies tied with white ribbon, the whole forming a flowered aisle from the street to the altar. At alternate pews the bouquets were on standards eight feet high. Wall pockets were filled with white peonies and quantities of pin-oak brush were also used.

PHILADELPHIA NOTES.

William Plumb, of the horticultural department of the Panama-Pacific Exposition, has been visiting the trade here and stirring us up in the interests of the big show of 1915. He is full to the brim with enthusiasm and has many of us hypnotized already so that it looks as if Philadelphia and vicinity will have a good representation in exhibits and attendance.

Anthony Waterer and Elsie Merriman were married on the 10th inst. This is the third Anthony in the Waterer family. His grandfather was Anthony Waterer and his uncle of Knap Hill, Surrey, England, is also Anthony. The present Anthony is a son of H. Waterer, well known in the Horticultural trade of Philadelphia, and is associated with his father in the seed, plant and bulb trade. A young man of great promise and good prospects.

The borough of Lansdowne, where your scribe sleeps o' nights when not engaged like the Laird o' Cockpen on affairs o' the state, had a "clean-up week" recently. The borough also harbors the district agent of the King Construction Co., William J. Muth, and he informs us that there also was a bit of a "clean-up" in Lansdowne for his company. Here is his record: Wm. A. Leonard, complete material for a house 40 x 300; David Anderson, do., 45 x 250; James Verner, do., 42 x 183; Wm. Didden, do., 28 x 175; E. F. Lieker, material for repairs to an old house. Pretty good for one little town.

Springville, N. Y.—John Simpson has purchased the greenhouse business of Henry Weber.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847

Fifth Ave., at 46th Street, NEW YORK

THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns

Are Thoroughly Covered by

SCHILLER, THE FLORIST

(Member Florists Telegraph Delivery).

Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of

GEORGE ASMUS, Mgr.

2221-2223 W. Madison St., CHICAGO.

'Phone West 822

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

Stamford Seed & Nursery Co., 43 Atlantic St.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

NEW INCORPORATIONS.

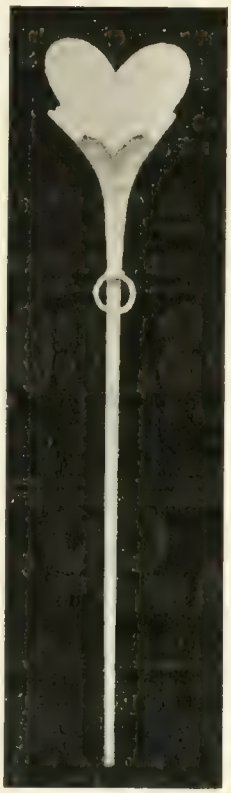
Chicago, Ill.—Kenilworth Nursery Company, capital stock increased to $25,000.

Cicero, Ill.—Warren Park Floral Company; capital stock, $2,500; incorporators, John Grant, Alexander Grant and William Scott.

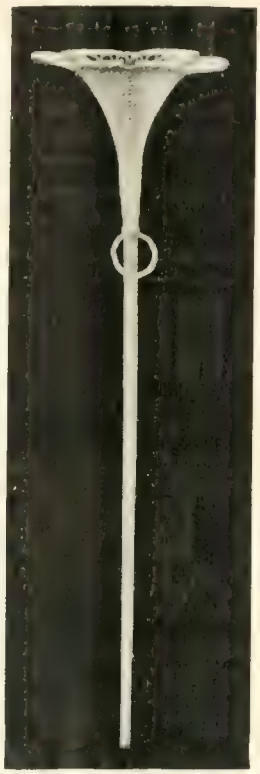
Des Plaines, Ill.—Garland Manufacturing Company, successors to the Garland Greenhouse Mfg. Company; capital stock, $35,000; incorporators, Louis Wittbold, Harry S. Garland and Charles H. Roe.

New Haven, Ct.—Kopf Bros. Company, agricultural and nursery business; capital stock, $500,000; incorporators, Henry B. Kopf, Matthew H. Laity and A. J. Ives.

WEDDING ACCESSORIES



No. 3



No. 4



No. 5

These Cuts Show Three of Our Latest Novelties Which We Term

BRIDESMAIDS' RESTING BASKETS

See Nos. 3, 4 and 5 in our Catalogue. And there are others, See Catalogue pages as follows:

Page 29, Kneeling Stool; Page 98, Shoulder Bridal Baskets No. 330; Page 97, Aisle Post No. 405; Page 95, Shepherd's Crook No 307, Directoire Staff No. 308, and Empire Staff No. 309.

Get Busy With These

Now is the Time

H. BAYERSDORFER & CO.

The Florists' Supply House of America

1129 Arch Street, - - Philadelphia, Pa.

CHICAGO NOTES.

The General Federation of Women's Clubs now in session here has led to the use of many flowers, especially roses. Huge bunches have been presented to the various speakers and used in the many receptions and banquets.

Florists are evidently regarded as worthy of attention by burglars, for Peter Reinberg's store was entered last week and the home of Richard Gloede of Evanston was the scene of an attempted robbery this week. Mr. Gloede was given some rather sensational advertising in the local papers as a result.

That portion of the downtown district known as the headquarters of the Chicago wholesale florists, is gradually being encroached upon by the big buildings. Just across the alley from E. C. Winterson's, the Franklin McVeagh building is down and the one at the N. E. corner of Wabash and Washington is following. The building occupied by A. L. Vaughan seems likely to follow soon and it is understood that the Atlas block, housing eleven wholesale florists, has only a limited time left.

PERSONAL.

Thomas Pegler, of Brunswick, Me., late of the Boston Flower Exchange, is in the asylum at Augusta, Me.

David Welch of Welch Bros., wholesale florists, Boston, will sail for Liverpool on the Cunarder Laconia, leaving Boston on June 23.

C. E. Critchell is arranging to go to Boston next week to look after his various duties as chairman of the sports committee of the S. A. F.

Chas. J. Bolgiano, of J. Bolgiano & Son, Baltimore, Md., is now enjoying a much needed rest with his family at the Hotel Dennis, Atlantic City.

George O'Sullivan, salesman for P. J. Smith, 49 West 28th street, New York city, and Miss M. A. Gallagher, of Astoria, were married on June 15th.

VISITORS' REGISTER.

Philadelphia: William Plumb, New York; J. Oresky, Seattle, Wash.

Knoxville, Tenn.—Mr. Sanders, representing Poehlmann Bros., Chicago, Ill.; A. J. Keroes, representing Climax Mfg. Co., Castorland, N. Y.

Boston: Theodore Outerbridge, Sunnylands, Bermuda; K. Niemants, representing Wezelenburg's Nurseries, Hazerswonde, Holland; W. C. Grassau, Sup't Greenwood Cemetery, Brooklyn, N. Y.

Chicago—Mrs. Wm. Grimes, Denver, Colo.; C. Dallwig, Milwaukee, Wis.; W. A. Rieman, Vincennes, Ind.; N. B. Storer, Terre Haute, Ind.; A. E. Turner, Mosinee, Wis.; C. B. Knickman, representing McHutchinson & Co., New York; R. E. Jones, Advance Company, Richmond, Ind.; A. Hare, Holton & Hunkel Company, Milwaukee, Wis.; C. Dallwig, Milwaukee, Wis.; A. P. Saunders, Clinton, N. Y.; B. H. Farr, Wyomissing, Pa.; W. A. Rieman, Vincennes, Ind.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

UNITED ICE MACHINES

For Florists and Greenhouses. Hundreds in successful stores everywhere. Let us show you their economy. Ask for Catalog XL

UNITED REFRIGERATOR & ICE MACHINE CO., Kenosha, Wis.

BEAUTIES

$1.00 to $3.00 per dozen

CATTLEYAS, doz. $6.00.
VALLEY, 100, $3.00 to $4.00.
DAGGER FERNS, 1000, $1.50.

BUSINESS HOURS: 7 A.M. to 6 P.M.

The Leo Niessen Co.

WHOLESALE FLORISTS

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To Cut Flower Growers and Retail Florists

IF YOU want to find a market for your product

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N. F. McCarthy, Mgr.

Block Letters, $2.00 per 100.
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Order direct or buy from your local supply dealer. Insist on having the **BOSTON**

Inscriptions, Emblems, etc. Always in Stock.

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 15			CHICAGO June 15			BUFFALO June 15			PITTSBURG June 15		
Am. Beauty, Special	.....	to	25.00	20.00	to	30.00	25.00	to	30.00	20.00	to	25.00
" " Fancy and Extra	15.00	to	20.00	15.00	to	20.00	15.00	to	20.00	15.00	to	18.00
" " No. 1	8.00	to	12.00	8.00	to	12.00	8.00	to	15.00	6.00	to	12.00
Killarney, Richmond, Extra	4.00	to	6.00	6.00	to	8.00	6.00	to	8.00	6.00	to	8.00
" " Ordinary	2.00	to	4.00	2.00	to	4.00	3.00	to	5.00	2.00	to	4.00
Hillingdon, Ward, Sunburst, Extra	4.00	to	6.00	6.00	to	10.00	6.00	to	8.00	6.00	to	8.00
" " " Ordinary	2.00	to	4.00	4.00	to	5.00	3.00	to	5.00	2.00	to	4.00
Maryland, Taft, Extra	4.00	to	6.00	6.00	to	10.00	6.00	to	8.00	4.00	to	6.00
" " Ordinary	2.00	to	4.00	4.00	to	5.00	3.00	to	5.00	2.00	to	3.00
Russell, Shawyer	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Carnations, Fancy	2.00	to	3.00	2.00	to	2.50	1.50	to	2.00	.....	to	2.00
" Ordinary	.....	to	1.50	.....	to	1.00	1.00	to	1.50	.....	to	1.00
Cattleyas	.....	to	50.00	35.00	to	50.00	40.00	to	50.00	.....	to	60.00
Lilies, Longiflorum	8.00	to	12.50	8.00	to	10.00	6.00	to	10.00	6.00	to	10.00
Lily of the Valley	3.00	to	4.00	3.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Snapdragon	2.00	to	4.00	3.00	to	6.00	4.00	to	7.00	.....	to	.....
Gladioli	3.00	to	6.00	4.00	to	6.00	.....	to	.....	4.00	to	6.00
Corn Flower	.....	to	.....	.40	to	.75	.....	to	.....	.....	to	.....
Mignonette	.....	to	.....	.....	to	.....	2.00	to	4.00	.....	to	....
Daises, white and yellow	.....	to	.....	1.00	to	1.50	1.00	to	1.50	1.00	to	1.50
Sweet Peas	.35	to	.50	.50	to	1.00	.50	to	1.00	.....	to	.50
Gardenias	.....	to	.....	.....	to	.....	.....	to	.....	.....	to	.....
Adiantum	.....	to	1.00	.....	to	1.00	.50	to	1.25	.....	to	1.25
Smilax	.....	to	15.00	15.00	to	18.00	.....	to	15.00	.....	to	20.00
Asparagus Plumosus, Strings (100)	.....	to	50.00	40.00	to	50.00	40.00	to	60.00	40.00	to	50.00
" " & Spren. (100 bchs.)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00	40.00	to	50.00

BUY **BOSTON FLOWERS**

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BOSTON'S BEST HOUSE

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

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MANUFACTURERS

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

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WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON Trade is quite improved over the past two weeks and may be said to be fairly good all around. The closing exercises of colleges and schools on the one hand and the clearing out of old stock by the growers, on the other hand, has made the supply and demand more nearly equal and a better feeling prevails in the wholesale marts. There is a greatly reduced cut of carnations especially. Lilies continue in enormous overstock and sweet peas are also far beyond requirements.

BUFFALO The first two weeks in June has seen the heaviest receipts of the season, especially on carnations and peonies. Everything in the line of cut material has to be forced on the buyers. Peonies of local growing are in and it certainly has been a bad season for disposing of them. The retailers have failed to move them in quantity at 25c. the dozen. Other sales such as peas, roses, carnations, have had to move at very low prices, especially carnations, which, on Saturday, were sold at a merchant's store for three hours at 25c. for two dozen. Of course this helped out the wholesaler considerable though the losses had been heavy at the earlier part of the week. At this writing, Monday, 15th, roses have shortened up and the demand is good on lily of the valley, white roses, peas, beauties, but again an over supply on peonies and carnations. With graduations and school commencements booked for next week it is hoped that things will improve.

CHICAGO Chicago market more nearly approaches a normal condition this week. The extreme heat and hot winds that played such havoc with stock, gave way to a cold wave which revived trade and greatly improved the quality of the flowers. Peonies are now selling at $4.00 per 100 with something of the old-time readiness, and growers are again encouraged. Carnations are much firmer in texture but small, and the demand is not very active. Good roses are not at all plentiful and sell promptly at sight, but there are more inferior ones than are needed. A fair demand exists for lily of the valley and a fair supply of orchids is coming in. Sweet peas are not likely to recover from the effects of the heat. Shipping trade is reported by the wholesalers as again satisfactory. The large spikes of gladioli which have been seen in this market and proved rather hard to move, were given a good advertisement as a stage bouquet, at the Auditorium. Two large urns held immense bouquets of light pink gladioli and asparagus plumosa, and they were a delight to the eye. No smaller flower could have filled the place so effectively. Among the offerings at the State street stores during the hot days were seen two dozen carnations for five cents—pretty fair flowers too.



EASTER LILIES

For decorative work and store use—splendid quality and in any quantity.

Long Stems $1.50 per doz. $10 per 100

EVERYTHING IN RIBBONS. We carry one of the largest and most varied stocks of Ribbons pertaining to the florist business of any house in the country. If you have not received one of our new catalogues advise us and we will mail you one immediately.

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The Wholesale Florists of Philadelphia

Philadelphia, 1608-1620 Ludlow St.
New York, 117 W. 28th St.
Baltimore, Franklin and St. Paul Sts.
Washington, 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	BOSTON June 18			ST. LOUIS June 15			PHILA. June 15		
Roses									
Am. Beauty, Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00
" " Fancy and Extra	8.00	to	15.00	15.00	to	18.00	10.00	to	15.00
" " No. 1	2.00	to	6.00	5.00	to	10.00	3.00	to	6.00
Killarney, Richmond, Extra	3.00	to	5.00	4.00	to	6.00	4.00	to	8.00
" " Ordinary	1.00	to	2.00	2.00	to	3.00	1.00	to	3.00
Hillingdon, Ward, Sunburst, Extra	5.00	to	8.00	5.00	to	6.00	4.00	to	8.00
" " " Ordinary	2.00	to	3.00	3.00	to	4.00	2.00	to	4.00
Maryland, Taft, Extra	5.00	to	8.00	4.00	to	6.00	4.00	to	10.00
" " Ordinary	2.00	to	3.00	2.00	to	3.00	2.00	to	4.00
Russell, Shawyer	2.00	to	15.00	.....	to	.....	2.00	to	10.00
Carnations, Fancy	1.00	to	2.00	2.00	to	3.00	2.00	to	3.00
" Ordinary	.75	to	1.00	.50	to	1.00	1.00	to	1.50
Cattleyas	25.00	to	30.00	40.00	to	50.00	40.00	to	50.00
Lilies, Longiflorum	2.00	to	4.00	8.00	to	10.00	4.00	to	8.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	1.00	to	4.00
Snapdragon	2.00	to	4.00	2.00	to	4.00	1.00	to	3.00
Gladioli	.....	to	.....	.....	to	.....	5.00	to	8.00
Corn Flower	.....	to	.....	.....	to	.....	.20	to	.40
Mignonette	1.00	to	3.00	4.00	to	5.00	.....	to	.....
Daisies, white and yellow	1.00	to	1.50	.25	to	1.00	.40	to	1.00
Sweet Peas	.10	to	.50	.10	to	.40	.20	to	.50
Gardenias	12.00	to	20.00	.....	to	.....	4.00	to	15.00
Adiantum	75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	10.00	to	12.50	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	25.00	to	50.00

CINCINNATI Market conditions have changed materially since the last writing. Instead of a glut in all lines with but a small or special demand we now have a market with more limited offerings in each seasonable line with a general demand that is much better than it was up till the close of last week. The improvement was first noted after the middle of last week. Gladioli, lilies, sweet peas and lily of the valley are the best as far as relative quality is concerned. The first named are much more plentiful than they have been this spring. Most of roses from our local growers are fine large stock. A considerable part of the receipts, however, are shorter than is usual for varieties such as America at this time of the year. Lilies are plentiful and excellent in quality. Sweet pea cuts are good both in respect to quantity and quality. Roses are not as plentiful as they have been for several weeks. The extreme heat has seriously affected the old stock while the cuts from the strictly summer roses are not large as yet. Carnations are easily sufficient for present needs, but are rather indifferent in quality. Large quantities of fine peonies are being taken out of storage.

NEW YORK Summer conditions are here with one exception; that is, the tremendous supply of flowers in evidence. In roses probably there is a little let-up but not enough to affect prices. Outdoor roses are very much in evidence; Ramblers, Brunners, etc. Peonies are everywhere—home grown as well as cold storage, and prices are ridiculously low. Lily of the valley again has taken a tumble, arriving in great quantity and selling any where from $12.00 to $25.00 per thousand. The quality of carnations is keeping up remarkably well. Lilies are a glut but of good quality. The best can be bought for $2.00 per 100. Cattleyas the same, good blooms selling very low as a rule. While all of the retailers seem busy with funeral work and orders for steamers, the stock they take out of the wholesale market does not make much impression.

H. E. FROMENT
Wholesale Commission Florist,
Choice Cut Flowers,
57 West 28th St. NEW YORK
Telephones: 2200, 2201, Madison Square.

Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 756 Madison Square
New York

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Wholesale Florist
107 W. 28th Street, NEW YORK
Call and inspect the Best Establishment in the Wholesale Flower District.

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Consignments Solicited
Phone 7362 Madison Square

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Ferns, Mosses, Wild Smilax, Galax, Leucothoe, Palmetto, Cycas, both fresh cut and prepared.
Laurel, Hemlock, all Decorating Evergreens.
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122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and Florists' Requisites

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Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
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FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
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Successor to JOHN I. RAYNOR
Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
The HOME OF THE LILY by the 100, 1000 or 10,000.
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OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
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THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 13 1914	First Half of Week beginning June 15 1914
American Beauty, Special	15.00 to 25.00	20.00 to 30.00
" " Fancy and Extra	8.00 to 12.00	10.00 to 15.00
" " No. 1	2.00 to 6.00	2.00 to 10.00
Killarney, Richmond, Extra	3.00 to 5.00	3.00 to 4.00
" " Ordinary	.50 to 2.00	.50 to 2.00
Hillingdon, Ward, Sunburs, Extra	3.00 to 5.00	3.00 to 4.00
" " Ordinary	.50 to 3.00	.50 to 1.00
Maryland, Taft, Extra	4.00 to 5.00	3.00 to 4.00
" Ordinary	.50 to 3.00	.50 to 1.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	1.50 to 2.00
" Ordinary	.50 to 1.50	.50 to 1.00

Centrally Located, The Hub of the Flower Market Section
CHARLES MILLANG
Wholesale Florist
55 and 57 W. 26th Street, - - NEW YORK
Telephone 7062 Madison

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WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones {1664 / 1665} Madison Square CONSIGNMENTS SOLICITED

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
Prices Right. Consignments Solicited. Telephone Connection

MONTREAL FLORAL EXCHANGE, LTD.
ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
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Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
131 West 28th St., New York
Telephones: 798 and 799 Madison Square
Consignments Solicited

Flower Market Reports

(Continued from page 910)

PHILADELPHIA The market here has been a little brighter, — in spots,—the past week. Lily of the valley and cattleyas are conspicuous among the bright spots as are also good white roses. The double white Killarney is distinctly ahead in quality at present—far superior to the ordinary type of White Killarney. American Beauty sells well, especially in the better grades. In fact this may be said of all flowers all along the line. There is an enormous oversupply of poor stock in everything and such material might as well be kept at home as there is little demand except for the best quality and the poor material hardly brings enough returns to pay for packing and shipping. This is especially true of carnations. Any amount of stock but nearly all poor quality. Sweet peas have suffered from the hot dry weather and are mostly short stemmed. Gardenias plentiful and going fairly well. The congested condition of the lily market which has prevailed for close on three months, shows signs of abating and it looks as if this crop would shortly swing back to normal prices.. Callas are about done. Gladioli are in good shape and are mostly of the large-flowering varieties — very few of the "baby" type now to be seen. Delphinium coming in strong and extra good, fine large spikes and long stems—a lovely decorative subject.

ST. LOUIS The wholesalers say they had a pretty good business the past week but the complaint was as to quality of the stock. Of late first-class stock is out of the question in roses and carnations. Sweet peas are about burned out by the heat. Gladioli, lily of the valley and lilies are among the flowers of which fancy grades can be had. Prices are low and the demand from now on will be slow.

WASHINGTON Some little additional business was had last week from the many commencement and graduation exercises and the June weddings, and these affairs used up a considerable portion of the best quality of stock brought into the market. Stock of all kinds continues to be overplentiful and far more flowers are being produced than can be disposed of even at rock-bottom prices. The heat on several of the days was excessive and this had a tendency to decrease the size of roses and carnations. Sweet peas and lily of the valley are moving well; orchids too are in fair demand, but the other varieties find little demand, in comparison with the quantity of stock received. Gardenias are very plentiful. There are few if any peonies and several orders last week went to out of town producers to be filled. A remarkable slump has taken place in the corsage business, for a walk along the F Street promenade finds a much smaller percentage of corsage bouquets being worn than has been the case this year.

Plainville, Ct.—John Ahlquist has leased the greenhouses of Mrs. C. M. Woodford.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 13 1914	First Half of Week beginning June 15 1914
Cattleyas	15.00 to 35.00	15.00 to 35.00
Lilies, Longiflorum	..... to 2.00	..... to 2.00
Lily of the Valley	1.00 to 3.00	1.25 to 2.50
Snapdragon	2.00 to 3.00	2.00 to 3.00
Gladioli	..... to	2.00 to 6.00
Corn Flower	..... to	.50 to 1.00
Mignonette	.50 to 2.00	.50 to 2.00
Daises, white and yellow	.75 to 1.50	.75 to 1.50
Sweet Peas (per 100 bunches)	1.00 to 6.00	1.00 to 6.00
Gardenias	10.00 to 25.00	10.00 to 25.00
Adiantum	.50 to .75	.35 to .75
Smilax	10.00 to 16.00	10.00 to 16.00
Asparagus Plumosus, strings (per 100)	35.00 to 50.00	25.00 to 35.00
" " & Spren (100 bunches)	15.00 to 35.00	20.00 to 30.00

During Recess

St. Louis Growers.

The St. Louis County Growers' Association will hold an outing for its members at Stuts' Grove, on June 30. This was decided at the last meeting. Something of a surprise is in store for all who come.

Cincinnati Outing.

The outing committee of the Florists Society have selected The Lagoon for the annual outing and picnic of the florists on Thursday, July 9th. The committee are arranging for the usual programme of sport and entertainment for the day.

New York Florists' Club Outing.

All aboard for Glen Island, July 1st. Boat leaves East 24th street at 9.45 A. M. All arrangements have been made for the comfort and amusement of all. We are going to a beautiful place and will be conveyed in a handsome steamer. A large sum of money has been donated for the various events. The price of tickets, which includes shore dinner and all refreshments on steamer, also sandwiches and ice cream returning, is as follows: gent's ticket, $3.50; lady's ticket, $2.50; boys and girls between the ages of 12 and 16, $2.00; children under 12 years, $1.00; babies, free and welcome. Extra tickets may be procured from A. M. Henshaw, 51 West 28th street; R. J. Irwin, 71 West 23rd street, and W. E. Marshall, 166 West 23rd street. It is necessary to let the committee know early how many tickets you will require so that ample time will be allowed to provide for the large attendance expected.

THE OUTING COMMITTEE.

W. E. Marshall, Chairman, Alf. E. Wheeler, Treasurer, 166 W. 23rd street, New York.

Philadelphia Club Outing.

The Outing Committee of the Florists' Club of Philadelphia has made all arrangements for the Third Annual Outing, to be held Monday, June 22nd, at Schuetzen Park, Tabor Station. A very interesting and pleasant program has been prepared and a most enjoyable afternoon is promised. The games start promptly at 2.30 p. m. The outing will take place, rain or shine.

Program of Events.

Baseball Game, Seedsmen and Retail Florists vs. Growers and Commissionmen. A prize will be awarded to each one of the winning nine.

Wheelbarrow Race for men; Wheelbarrow Race for ladies; Fat Men's Race, 50 yards; Sack Race for men, 18 years and over; Ladies' Race, 50 yards; Girls' Race, 75 yards, 10 to 15 years; Boys' Race, 75 yards, 10 to 15 years; Tug of War, Seedsmen and Retail Florists vs. Growers and Commissionmen. Six men on each side. Six prizes will be awarded in this event.

In all events, unless otherwie mentioned, three prizes will be awarded.

Arrangements have been made for dancing in the Club House. Music from 7.30 to 10 p. m.

The Outing Committee consists of John C. Gracey, chairman; Adolph Farenwald, John Kuhn, Fred J. Michell, Jr., Fred Cowperthwaite, Charles E. Meehan, Arthur A. Niessen, treasurer.

NEW YORK NOTES.

Alex. McConnell is serving on the jury for the month of June.

J. H. Troy is away for a few weeks in Canada on a fishing trip.

Robert F. MacClelland, 286 Fifth Ave., assumes the position of advertising representative for HORTICULTURE beginning this week. Give him a call.

Julius Roehrs was booked to sail for Europe June 30, on the Kaiser Wilhelm, II. Now that the Kaiser Wilhelm is disabled, his plans will have to be changed.

The principal topic of conversation is, "Are you going to the Convention?" The trip via Metropolitan Steamship line, known as the "Outside Line," is a very popular one and many of the florists with their ladies will avail themselves of the opportunity of joining the party, which from all accounts will be a large one.

William Plumb, Chief of Horticulture, Panama Pacific Exposition, is making his second trip to Philadelphia, Baltimore and Washington and is very much pleased with a good prospect for a creditable horticultural display from the east and middle west. H. A. Dreer and Wm. Tricker will make extensive displays of aquatics.



Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
For page see List of Advertisers.

AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

AUCUBA

Aucuba japonica, bushy plants, 35c. to $2.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

AUTO TIRES

Non-Puncture Tire Factory, Dayton, Ohio.
For page see List of Advertisers.

Tire Factories' Sales Co., Dayton, Ohio.
For page see List of Advertisers.

AZALEAS

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BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

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Chas. Schwake & Co., New York City.
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C. KEUR & SONS, HILLEGOM, Holland. Bulbs of all descriptions. Write for prices. NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CELERY PLANTS

Celery Plants, Golden Self-Blanching (French Strain), fine plants, ready now, $2.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

CHRYSANTHEMUMS

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Chrysanthemums—50,000 rooted cuttings and plants from soil; leading market sorts. Write for prices. WM. SWAYNE, Kennett Square, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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CYCLAMENS from 3 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

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DRACAENAS

Dracaena Indivisa, strong, 7 in. to 4 ft. high, 75c. and $1.00 each. H. WESTON, Hempstead, N. Y.

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4,000 S. A. Nutt, 5 cents. G. P. GRIDLEY, Wolfboro, N. H.

Geranium S. A. Nutt in bud and bloom, 3½ in. pots; good plants, 6c. Cash please. CHAS. H. GREEN, Spencer, Mass.

Several hundred S. A. Nutt from 2½ in. pots, at $15.00 per 1000. Cash with order. F. W. FIELD, 119 Elm St., Waverly, N. Y.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish foods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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LAURUS

Laurus Cerasus: Bush, 35c.-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
JULIUS ROEHRS CO., Rutherford, N. J.

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Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
JULIUS ROEHRS CO., Rutherford, N. J.

PIGEON RAISING
Reliable Squab Journal, Versailles, Mo.
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Seele's Tieless Plant Stakes and Trellises. H. D. SEELE & SONS, Elkhart, Ind.

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"Riverton Special."

RAFFIA
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS
SALVIA BONFIRE—3½-in. pots, well branched, $5.00 per 100; 2¼-in. pots, $1.50 per 100. PINE GROVE FLORAL CORP., 35 Hudson St., Lynn, Mass.

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SNAPDRAGONS

SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPRINKLING, IRRIGATING AND WATER SUPPLY OUTFITS

Chas. J. Jager & Co., Boston, Mass.
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STOVE PLANTS

Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS

Burnett Bros., New York City.
Pot-Grown.
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SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties; 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

Transplanted Tomato Plants—Earliana, Acme, Stone, Perfection, Ponderosa, $4.00 per 1000. A. CROFT, Garrison-on-Hudson, N. Y.

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Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.

WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston

N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
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Welch Bros. Co., 226 Devonshire St.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 383-87 Ellicott St.
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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Detroit

Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal

Montreal Floral Co., Ltd., Montreal, P. Q.
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New York

H. E. Froment, 57 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 37 & 39 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers In This Issue

EASTER LILIES.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
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FLORISTS' SEEDS.
James Vick's Sons, Rochester, N. Y.
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MICHELL'S FLOWER SEEDS.
Henry F. Michell Co., Philadelphia, Pa.
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QUALITY FLOWER SEEDS.
Arthur T. Boddington, New York City.
For page see List of Advertisers.

ROSE MRS. GEORGE SHAWYER.
Charles H. Totty, Madison, N. J.
For page see List of Advertisers.

Why HORTICULTURE has stood the test as a profitable Advertising medium for the trade.

Because It is read by the men of standing and influence in the Horticultural field, every one of whom is a prospective buyer.

Why HORTICULTURE is so widely read.

Because Its contents are distinctly representative of American Horticulture and are thus indispensable to the Florist, Nurseryman, Seedsman and Gardener.

An Admirer of HORTICULTURE in the Central West writes; "It has won on its merits. It is our most prized weekly visitor."

And Now You See How HORTICULTURE has managed to elbow its way in between its older rivals and why the best trade advertisers find it an indispensable auxiliary.

It's No Secret That the men who read HORTICULTURE are the sort of men that advertisers like to talk to and if you have anything to advertise you can't afford to get along without them.

AUTOMOBILE TIRES AT FACTORY PRICES

SAVE FROM 30 TO 60 PER CENT.

	Tire	Tube
28x3	$ 7.20	$1.65
30x3	7.80	1.95
30x3½	10.80	2.80
32x3½	11.90	2.95
34x3½	12.40	3.00
32x4	13.70	3.35
33x4	14.80	3.50
34x4	16.80	3.60
36x4	17.85	3.90
35x4½	19.75	4.85
36x4½	19.85	4.90
37x4½	21.50	5.10
37x5	24.90	5.90

All other sizes in stock. Non-Skid tires 15 per cent. additional, red tubes 10 per cent. above gray. **All new clean, fresh, guaranteed tires.** Best standard and independent makes. Buy direct from us and save money. 5 per cent. discount if payment in full accompanies each order. C. O. D. on 10 per cent. deposit. Allowing examination.

TIRE FACTORIES SALES CO.

Dept. A. Dayton, Ohio

FOR SALE

FOR SALE

Lot of land, 248 feet by 106 feet, with 3 iron construction greenhouses, 175 x 20 feet each, potting shed, some frames in fine condition. Located on three streets, trolley passing the front, in a town of 40,000 inhabitants, close to New York. Excellent place, suitable either for local trade where all the products could be readily sold or for wholesale shipping to New York or Philadelphia. Low price, terms to suit purchaser. Address Chance, care HORTICULTURE.

FOR SALE—Large place in New Jersey, near New York City, 30,000 feet of glass, large dwelling and furniture, barn, horses, and automobile; well established business, local and wholesale; also large landscape business. Place is near trolley and railroad, and is in first class condition, all up-to-date improvements. Price very reasonable; owner must sell at once, going west. Particulars CHAS. MILLANG, 55 W. 26 St., New York City

FOR SALE—30,000 sq. ft. of Greenhouses; Extra Large 6-Room House; Large Barn and Wagon Shed; Packing House with Cement Tanks, Pumping Engine and Engine House, also Boiler House; 4 1-50 acres of the best land, with the privilege of 30 acres more. R. R. switch on premises. Located 30 miles from New York on Long Island; 1 mile to two R. R. stations. Address "W. B., Box 85, Lakehurst, N. J.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

INFORMATION WANTED

WANTED names and addresses of foremen seeking positions on commercial places January and February, 1913. Address "J. L.," care HORTICULTURE.

PUBLICATIONS RECEIVED.

Success With Hens, by Robert Joos. Published by Forbes & Co., Chicago. Profit and pleasure with poultry, equipment, management, raising and marketing of eggs and poultry, diseases, exhibiting and the thousand and one details of successful poultry farming are thoroughly and practically elucidated in the 55 chapters included in this useful work. Price $1.00.

The Tree Guide, for Trees East of the Rockies, by Julia Ellen Rogers. This is a very practical little descriptive handbook, size 3¼x5½, 270 pages, each page giving a portrait (some in colors) and careful botanical description of one tree in all details necessary for identification. It will be found a very useful pocket companion by the tree lover. Published by Doubleday, Page & Co., Garden City, N. Y. Price: Cloth, $1.00; leather, net, $1.25. Copies can be supplied by HORTICULTURE.

The Back Yard Farmer, by J. Willard Bolte. Published by Forbes & Co., Chicago. Price, $1.00. Just the book for the amateur and home gardener. There are 76 chapters, covering all kinds of garden crops, ornamental and useful, laying out and culture, poultry, bees, domestic animals, etc., and anyone using this practical book as a guide cannot fail to make the back yard and the entire home environment a beauty spot and a full realization of home comfort and happiness.

Transactions of the National Chrysanthemum Society (England) for the year 1913. This annual volume issued by the secretary, Mr. Richard A. Witty, 72 Savernake Road, Gospel Oak, N. W. London, is full of interesting information for the chrysanthemum enthusiast. A portrait of Mr. Thos. Bevan, chairman of the executive committee, forms the frontispiece, and there is an interesting illustrated chapter on Chrysanthemums for Outdoor Garden Decoration. P. A. Cragg contributes a useful report on a trial of steam sterilization for chrysanthemums. A full audit of blooms exhibited at the Crystal Palace Show last November is given by D. B. Crane, chairman of the floral committee, also a report on the new classification of chrysanthemums. Seven beautiful colored plates of first-prize winning exhibits are inserted as a supplement. A detailed report on the Autumn Exhibition at Ghent, Belgium, is contributed by C. Harman Payne.

Also received the Schedule of Prizes, List of Members, etc., of the National Chrysanthemum Society for 1914.

THE 1913 AGRICULTURAL YEAR-BOOK OUT.

Washington, D. C.—The Yearbook of the United States Department of Agriculture for 1913 has just come from the presses, and is now being distributed to Congressmen and to correspondents of the Department entitled to receive copies. The new volume differs in several respects from its predecessors. The articles that it contains are in general of a more popular and instructive character, and although the book itself contains a smaller number of pages, it is safe to say that it has as much valuable material in it as ever.

The book is illustrated by 54 full-page plates, of which a large number are reproduced in colors, and by 21 tables, maps and line drawings.

LEMON OIL CO'S STANDARD SOLUBLE IN WATER INSECTICIDE NO ODOR NO POISON

Guaranteed under the Insecticide Act, 1910. Series No. 321

Save your plants and trees. Just the thing for Greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrip, Red Spider, Black and Green Fly, Mites, Ants, Insects on Rosebushes, Carnations, etc., without injury to plants and without odor. Used according to directions our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pests. Excellent as a wash for dogs and other animals. Relieves mange.

Effective where others fail.

½ Pint...25c; Pint...40c; Quart.....75c
½ Gal., $1.25; Gal., $2.00; 5 Gal. Can, $9
10 Gal. Can....$17.00

Dilute with water 30 to 50 parts.

For Sale by Seedsmen and Florists' Supply Houses

If you cannot obtain this from your supply house write us direct.

LEMON OIL COMPANY, Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every package

RAISE PIGEONS

THEY PAY DOLLARS WHILE CHICKENS PAY CENTS

The young, 20 to 25 days old, sell for 40 to 60 cents each (according to the season). The city markets are always clamoring for them.

Each pair of Pigeons will raise 18 to 22 young a year.

They will clear you, above all expenses, $5.00 a year per pair. They breed the entire year. Twenty minutes daily will care for 100 pairs.

Always penned up out of the way. Very small space required

All this is fully explained in this month's issue of our Journal; send for it; price 10 cents.

Reliable Squab Journal, Versailles, Mo.

MASSACHUSETTS AGRICULTURAL COLLEGE.

With the close of the college year the regular work in floriculture has ended. The Department strongly advises the students to get practical experience, and so each summer a number of men go out into practical work. F. E. Allen is to work for W. N. Craig at Faulkner Farms, Brookline; A. S. Thurston for A. H. Wingett at "Aileen Winden," Lenox; W. L. Doran on the estate of J. P. Morgan in Newport. A. E. Wilkins and E. S. Wright stay at the college to work for the Floricultural Department; W. H. Haskell also stays to work in the Market Gardening Department. Miss S. J. Strange, who graduates from the college, will teach school gardening and elementary horticulture the coming year. W. H. Hatfield has charge of the school gardening work at Milton, Mass., for the summer. G. A. Reid, another Senior, has secured a position as an assistant manager on the estate of Mr. F. C. Littleton, Mamaroneck, New York.

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMICATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PINO-LYPTOL

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

PINO-LYPTOL CHEMICAL CO.

455-457 West 26th Street, NEW YORK CITY

CORRESPONDENCE SOLICITED

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide

For green, black, white fly, red spider, thrips, mealy bug and soft scale. Can be used on tender plants.

$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and other blights. It is perfectly safe to apply to fruits and vegetables, as it is non-poisonous. An infallible remedy for rose mildew, carnation and chrysanthemum rust.

75c. per quart—$2.00 per gallon.

VERMINE

For eel, cut and wire worms working in the soil. It can be applied to all vegetation.

$1.00 per quart—$3.00 per gallon.

SCALINE

For San Jose, Oyster Shell and all scale on trees and hardy stock. An effective remedy for red spider on evergreens.

75c. per quart—$1.50 per gallon.

All the above products are readily soluble in water at proportions directed on cans and are used as spraying materials.

NIKOTIANA

A 12% nicotine solution for fumigating and vaporizing.

$1.50 per quart—$4.50 per gallon.

Manufactured by

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.



Unequalled for Greenhouse and Landscape Fertilizing

THE PULVERIZED MANURE CO.

31 Union Stock Yards, Chicago

IMP.

SOAP SPRAY

Well known, highly efficient spray for all Insect Pests, Apple Trees, Roses, Shrubs. No mineral poisons, clean, odorless, sticks but will not discolor.

Harmless to Birds and Cattle.
Most Effective Results.

1 GAL., $1.65 5 GAL. $6.50

Dilute with 24 to 40 parts water.

Ask your dealer or write

EASTERN CHEMICAL CO, BOSTON

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.

30-32 Barclay Street, NEW YORK

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N.Y.

AETNA BRAND TANKAGE FERTILIZER

Acknowledged to be the best balanced fertilizer manufactured. It contains the ten basic salts constituting soil. It is giving satisfactory results wherever used. Write for 500-lb. sample order.

FARMERS AND FLORISTS FERTILIZER CO.

809 Exchange Ave., Rm. 15. Tel. Yards 842.

U. S. YARDS, CHICAGO, ILL.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., BEVERLY, MASS.

When writing to advertisers kindly mention HORTICULTURE.

Est. 1765 FOR "POT LUCK" USE Inc. 1904

Pot Makers for a Century and a Half **HEWS STANDARD POTS** World's Largest Manufacturers

AND RED EARTHENWARE SPECIALTIES

Write for Catalogue and Discounts **A. H. HEWS & CO., Inc., Cambridge, Mass.** Warehouses: CAMBRIDGE, MASS. LONG ISLAND CITY, N. Y.

PREMIER

"Non-Puncture" Auto Tires

Guaranteed 7,500 Miles Service

These tires bear the greatest known mileage guarantee, yet are sold at a price even less than tires of ordinary guarantee. This guarantee covers punctures, blow-outs and general wear. Guarantee covers 7,500 miles service against everything except abuse. These tires are intended for most severe service.

Orders have been received for these tires for use in United States Government Service.

As a SPECIAL INTRODUCTORY offer, we will allow the following prices for the next ten days.

TIRES—TUBES

	Tire	Tube
28x3	$9.20	$2.00
30x3	10.25	2.30
30x3½	13.50	2.80
32x3½	14.05	3.00
34x3½	15.35	3.20
31x4	17.00	3.25
32x4	18.00	3.30
33x4	19.50	3.40
34x4	20.40	3.60
35x4	21.00	3.80
36x4	22.00	3.90
35x4½	26.00	5.00
36x4½	27.00	5.10
37x4½	27.50	5.15
37x5	32.60	5.40

All other sizes. Non-Skids 20 per cent. extra. 5 per cent. discount if payment in full accompanies order and if two are so ordered, shipping charges will be paid by us. C. O. D. on 15 per cent. of amount of order. Our output is limited, so we suggest early ordering. We sell direct only, giving purchaser the advantage of all middlemen's profits.

NON-PUNCTURE RELINERS.

Use our famous reliners, they eliminate blow outs and 90 per cent. of punctures besides giving many thousand more miles service to each tire. When in your tires you ride without worry or tire troubles.

NON-PUNCTURE RELINERS

For all 3	inch tires	$1.95
For all 3½	inch tires	2.20
For all 5½	inch tires	3.00
For all 4	inch tires	2.60
For all 4½	inch tires	2.75
For all 5	inch tires	2.90

NON-PUNCTURE TIRE FACTORY
Dayton, Ohio

FOLEY
Builds Good Greenhouses
TRY HIM.
THE FOLEY GREENHOUSE MFG. CO.
3275 West 31st Street
CHICAGO, Ill.

GREENHOUSES BUILDING OR CONTEMPLATED.

Oak Park, Ill.—J. Stauber, additions.

Sterling, Col.—B. C. Johnson, one house.

Minot, N. D.—George Valker, three houses.

Wilmette, Ill.—Pyfer & Olsem, house 34 x 142.

Queens, N. Y.—Park Department, one house.

E. Greenwich, R. I.—James Hay, carnation house.

Chicago, Ill.—August Priebs, Park Ridge, two houses.

Newport, R. I.—Joseph Ott, Walcott street, house 18 x 55.

Hutchinson, Kan.—Kansas State Reformatory, one house.

Clayton, Mo.—Werner Bros., three houses, each 28 x 150.

Chicago, Ill.—Stieg's Greenhouses, West Center street, additions.

Corpus Christi, Tex.—Case de Flores Greenhouses, range of houses.

Baltimore, Md.—Pierce & Co., Charles and Hamilton streets, one house.

Oklahoma City, Okla.—J. Gangee, Fourth and Western streets, one house.

Albany, N. Y.—Whittle & Riggs, Madison avenue, additions and alterations.

Hutchinson, Kan.—Kline Bros. & Lamont, 11th and Monroe streets, one house.

Lansdowne, Pa.—Wm. A. Leonard, house 40 x 300; David Anderson, house 45 x 250; James Verner, house 42 x 185.

PEIRCE PAPER FLOWER POT

A waterproof paper pot.

Does not fold up or come apart.

Plants in transit retain moisture within the plant ball instead of its being absorbed by the packing, insuring their traveling long distances in perfect condition.

Received a Certificate of Merit from the Society of American Florists and Ornamental Horticulturists, Minneapolis, August, 1913.

Only paper pot ever so recognized.

Ask your seedsman or supply house. If they do not keep them, send direct.



Made in Standard sizes, 2 inch to 6 inch inclusive.

Samples furnished free.

E. Allan Peirce
401 Oaks Road
Waltham, Mass.

KING GREENHOUSES

Are supplied in 3 different Iron Frame Types; also in the Semi Iron or Pipe Frame styles, so we can offer you a strong, practical Sunny House at the price you can afford to pay.

Write us today—just tell us what you want and we will do the rest.

KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

PATENTS

Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed.
Thirty years active service.

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

1000 READY PACKED CRATES
STANDARD FLOWER POTS AND BULB PANS
can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.
August Rolker & Sons, 51 Barclay St., N. Y. City, Agents
OUR SPECIALTY — Long Distance and TradeExport

STANDARD FLOWER POTS

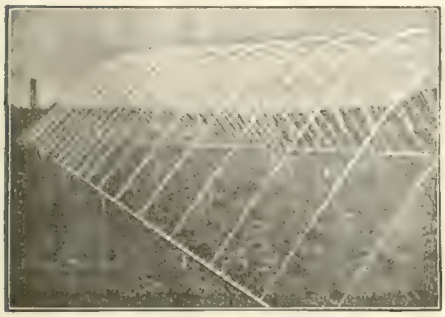
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST
28th & M Sts. Washington, D C



DREER'S
Florist Specialties,
New Brand. New Style.
Hose "RIVERTON"
Furnished in lengths up to 500 ft. without seam or joint.
The HOSE for the FLORIST
¾-inch, per ft., 15 c.
Reel of 500 ft., " 14½c.
2 Reels, 1000 ft., " 14 c.
½-inch, " 13 c.
Reels, 500 ft., " 12½c.
Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

SAVE YOUR LAWNS AND GARDENS



Sprinkling, Irrigation and Water Supply Outfits

Country Estates a Specialty

Write us of your needs and conditions and we will tell you what we can do for you.

Charles J. Jager Co.

Consulting and Contracting Engineers

13-15 Custom House St., BOSTON, MASS.

and

33 Canal St., PROVIDENCE, R. I.

TWEMLOW'S

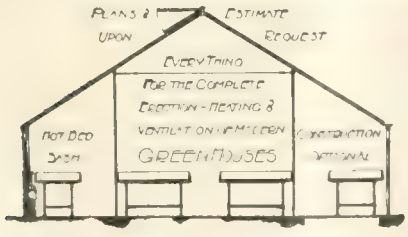
OLD ENGLISH PUTTY

Gallon Cans $1.75

Wm. Elliott & Sons

42 Vesey St., New York

S. JACOBS & SONS



1359-1385 Flushing Ave.

BROOKLYN, - - - N. Y.



Evans 20th Century Arm

Will not twist the shafting pipe. Three times the power of old style elbow arms Sold only with Evans Challenge Machine

Write for free Catalogue to

QUAKER CITY MACHINE CO., Richmond, Ind.



The Campbell Automatic Irrigation Sprinkler

Solves the "Irrigation Problem" and affords rain when you want it and like you want it, at the minimum cost of installation and operation Sample postpaid $3.00. Money back if you want it. Descriptive literature on request.

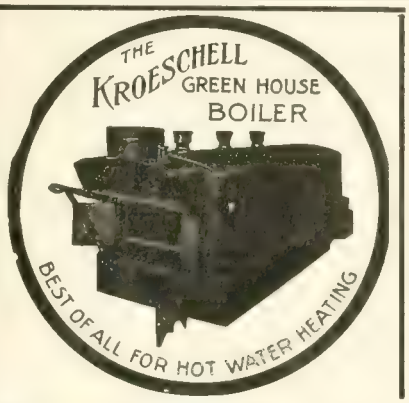
J. P. CAMPBELL, Jacksonville, Fla.

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.



Kroeschell Bros. Co.

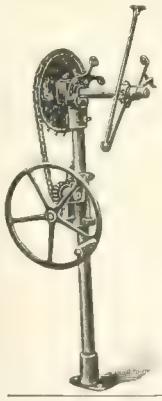
466 W. Erie Street CHICAGO

GLASS

for **GREENHOUSE** and **HOT BED SASHES.** Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of **Specially Selected Glass** in **Greater New York** and can supply any quantity from **a box to a car load** on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.



"It means Money to your pocket to let us quote you on Ventilating apparatus and Greenhouse fittings. Send for catalogue today."

ADVANCE CO.

Richmond, - Ind.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us

1000, 75c. postpaid. Samples free

HENRY A. DREER, 714 Chestnut Street, Philadelphia.



CYPRESS SASH BARS

32 feet or longer

HOT BED SASH

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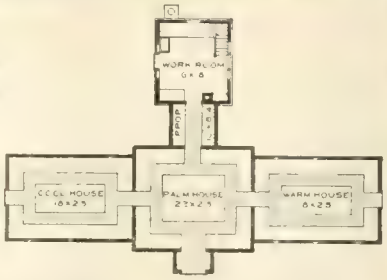
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NOTES OF CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Violets.

To keep violets that are under glass in good condition will require lots of attention from this on. If there is any crop that requires to be kept strictly clean during every stage of their growth it is the violet. They should be gone over every week and all diseased or decayed leaves removed. Keep the soil open and sweet by frequent and shallow cultivations. Give a good syringing early in the morning on fine days so as to allow the foliage to become dry before night. When the short and dark days come give all the air you can day and night until winter sets in. Be always very careful in watering, looking over the beds at first to detect the dry spots which can be watered. About the first week in August give them a mulch of cow manure and half soil, put on about three-quarters of an inch which will help to feed the surface roots which start after this date.

Cibotium Schiedei.

During the summer this fern will need lots of moisture both at the root and in the house. Go over them at least twice a day in bright weather. Do not keep the house too humid as it makes them very soft, but on the other hand when giving ventilation give it so that no cold currents of air will strike them. While these ferns like shade they do not want it too heavy. Shading, nine times out of ten, is overdone with all kinds of ferns. Where these ferns are quite pot-bound now is a good time to give them some liquid feeding. There is nothing better than cow manure. You can place about a bushel of cow manure in a barrel that holds about 50 gallons of water and let it stand for about two days. If this is too strong, dilute it some. They can get this about once a week, and you will be surprised at the great good this will do them in every way.

Ferns for Ferneries

Where you do not raise your own stock now is a good time to buy those that have been once transplanted. They can be kept over winter in 2½-inch pots. It is desirable to have a good plant in as small a pot as possible. When received put them on a bench on which is spread at least one inch of sand or coal ashes, so that they are not continually drying out. Keep them lightly shaded and the atmosphere should be kept moist all the time. Go over them three or four times a day in order that none dry out.

Primulas.

It is always better to have the primula pots plunged. When this is done they will not dry out near so quick as otherwise. Have the sashes raised both top and bottom at least eight inches so they can have plenty of fresh air and keep the sashes shaded so the foliage will not burn. It pays to have the sashes all removed from four o'clock in the afternoon until the next morning at about nine o'clock, when the sashes can be put on again. Some growers use lath shading, except when they run into a rainy spell. It is always well to go over these plants at least three times a day to see if any may need water. Give them a nice spraying overhead once a day. As they grow they will want spacing to prevent crowding.

Seasonable Repairs.

If you take note you will find that the most prosperous growers are always those who put their houses in proper shape before the cold weather. There will be lots of bench building or repairing, with an increased use of cement. Even at the hottest time of the year, the florist always finds plenty to do. It is hot work these torrid days but cloths can be laid over the roof to make it more tolerable. There is nothing worse than leaky and draughty houses. Give a general inspection as to painting, puttying, and other repairing. Repairing ventilators may be necessary. Do it now and—by the way—be sure that they are kept well oiled, so that they run easily. There isn't a greenhouse that should not have at least thorough cleaning out once a year. Don't put off cleaning for any reason; the present is the time to do it. There is absolutely nothing to look forward to in two months from now, but work—more of it than we can attend to perhaps, but don't overlook having clean houses.

Propagating Scented Geraniums.

Where a good stock of scented geraniums to cut from is wanted for next winter a batch should be put in sand now. By keeping them watered and shaded they will soon root. When they are rooted pot into three-inch pots and give some shade until they will stand the sun. Before they get pot-bound they should be planted out on a bench in a house that runs cool.

A Query

Mr. John J. M. Farrell

Dear Sir: I shall greatly appreciate your favor in advising me as to what time I shall sow mignonette in pots in order to get good plants to plant in benches by the middle of August. Is it time to sow the seeds, now?

Is it necessary to have the cyclamen outdoors in frames covered with sashes covered with laths on top, or is the lath covering only sufficient to put over them and the sashes put on at night time? Which frame is better adapted for cyclamen, a deep or shallow one?

A SUBSCRIBER

MIGNONETTE.

In reply to A Subscriber I would say that he should sow his seed in pots just as soon as he can, in order to have them fairly good size by the middle of August. You can sow about four seeds in a three-inch pot and keep moist and shaded until they come up, when they should have full sun, but never allowed to dry out.

CYCLAMEN.

It is not necessary to have sashes on your cyclamen in frames all the time. These sashes should always be near at hand in case of a heavy thunder storm, or a continued heavy rain. You can put them on at night if you want to without any harm by leaving them raised top and bottom 6 to 8 inches. Keep the lath covering on during bright, sunny days. Cyclamen likes to be well up to the light so deep frames are not advisable.

Mr. Farrell's next notes will be on the following: Crotons; Hydrangeas; Planting Carnations; Mignonette for Winter Flowering; Orchids; Keeping Down the Weeds.

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Bulb prices advanced

We are informed that the Holland Bulb Growers' Association have decided to mark up bulb prices for export ten per cent all along the line. There does not appear to be any plausible reason for this as there is an abundant crop and the Dutchmen should not be surprised if their action is interpreted by the trade as due simply to avariciousness and as furnishing a fresh evidence of the truth of the century-old saying that

> "The characteristic fault of the Dutch
> Is giving too little and asking too much."

The enormously increased demand here for Darwin tulips has had a stimulating effect on the price of that specialty but on the other lines of bulbs no such excuse is apparent and a natural consequence will be that the trade will resent the advance and reduce the amount of their purchases accordingly.

An unwelcome revival

According to *Deutsche Gartner Zietung* dried and dyed flowers and grasses are being revived as a fashion in Germany. We recall the time some thirty-five years ago when this sort of material had a very large sale in this country in loose state or arranged in baskets of various styles. That fashion we imported from Germany and much of the goods came from German sources. We can also recall still further back, and to some extent ever since, the custom of decorating the mantels and walls of the "best room" of the New England country cottage with vases and wreaths of dried flowers. The latter were bright amaranths, helichrysums, honesty, and a few of the native grasses of most the flowers cultivated by the housewife in the home garden each year. We can see a pretty sentiment in thus preserving through the long dreary winter these fadeless souvenirs of the summer time and they make a pretty and appropriate adornment of the rural home, but the revival of the use of the gaudy commercial stuff referred to in our German contemporary, as floral decoration in places where fresh flowers and plants are appropriate and available in abundance for every purpose, we should regard as a misfortune and a reaction much to be regretted and discouraged.

The florist can set the pace

The spring planting season is now pretty well over. An entire cleanup of the stock in the houses and frames is out of the question. There are always some remnants left over. We have always felt sorry to see these little batches of pot geraniums, cannas, heliotropes, etc., standing or lying topsy-turvey, neglected and baked in the hot sun, to be later thrown away, when, in many instances, there was vacant room in abundance outside where they might be tastefully planted out and made to add materially to the external appearance of the florists' place. It pays to make the surroundings of any home—and particularly the home or business establishment of a florist—beautiful and attractive by a profuse setting of flowers and verdure and to keep it scrupulously neat as an impressive object lesson which cannot fail to exercise a tremendous influence upon the local demand for such goods. Whole towns are made beautiful or otherwise and their attractiveness or repulsiveness as places of residence depends very much upon the care or neglect shown in the matter of home environment. The good example of a few will quickly inspire emulation and imitation and the man who can most effectively set the pace is the local florist.

THE GLADIOLUS.

By Ira H. Landis, Paradise, Pa.

The gladiolus is becoming more deservedly popular each year, with its beautiful flowers of such wonderful lasting qualities placing it above many other cut flowers. By merely trimming a small portion of the stem away each day the same bouquet will last over a week. It may be had during a long blooming season by different plantings at intervals of two weeks from the time the frost is out of the ground until July 1st and you may enjoy their beauty for ten or twelve weeks. This flower succeeds everywhere. The gladiolus responds so quickly to good treatment and requires so little effort that there can be no excuse for not producing good flowers. According to the varieties the bulbs will produce flowers in from sixty-five to ninety days. Well rotted stable manure is one of the best fertilizers and should be spread over the land in the fall and plowed the following spring. Plant from three to four inches deep, the larger bulbs the latter depth. The secret of growing good flowers is thorough cultivation. In nearly all parts of the country artificial watering is unnecessary provided a dust mulch is kept on the surface to conserve the moisture. Stir the surface as soon as fit after each rain and give frequent cultivation. A sunny situation and not planted close to buildings is best.

In cutting gladiolus the greatest satisfaction is obtained by cutting the spike when the first bud opens and allow the flower to develop indoors. Every bud will open and more perfect coloring will develop than would be possible if left in the sun. Cutting the spike when the first bud opens is also a benefit to the bulb as the strength of the foliage is required by the bulb to develop the next year's growth. For this reason always allow two or more leaves to remain.

About the latter part of September or after the first frosts appear the bulbs should be taken out of the ground and allowed to dry several hours in the sun, however the more drying or curing there is done the greater the loss of vitality and only enough drying should be practiced to free the bulb of surplus moisture contained in the skin or husk so that there will be no tendency to mould. The bulbs can be stored in shallow boxes safely in a reasonably dry air at a temperature of 32 to 40 for almost an indefinite period.

AMHERST NOTES.

With the close of the college year, the regular work in the floriculture department has ended. Many of the students specializing in floriculture have good jobs for the summer. The students are greatly in need of practical training, and the department does what it can to place them (the students) with good gardeners and florists during their vacation.

Of the seniors who have graduated, G. A. Reid is with Mr. F. C. Littleton, Mamaroneck, New York, as assistant manager of the estate; Miss S. J. Strange will teach gardening and elementary horticulture; A. S. Thurston is with Mr. A. H. Wingett at Lenox.

Of the juniors, F. E. Allen is with Mr. W. N. Craig, Faulkner Farm, Brookline; W. L. Doran on the estate of J. P. Morgan, Newport; W. H. Haskell on the market garden farm connected with the college; A. E. Wilkins and E. S. Wright will work in the floriculture department under Professor Nehrling's instruction; W. H. Hatfield will have charge of the Hillcrest Farm boys, Miss M. R. Case, Weston.

One of the special features of the commencement program of the Massachusetts Agricultural College was the sophomore senior hop in the armory on Tuesday evening, the sixteenth. The hall was decorated very elaborately. The decorations displayed an English formal tea garden. It showed a well defined, well-planned scheme, for it changed a bare, flat, dingy armory into an artistic and pleasing tea garden, where could be found terraced-pergolas in which were pools containing aquatic plants and gold fish; a garden house which was very much a part of the whole, not a separate unit; a pavilion made artistic with sprays of Asparagus plumosus; and a walk, edged with sod, which led around the hall. To be sure of complete balance of the many related parts, a hemlock tree was well placed in a corner, the boughs of which shaded one side of the house. The material in use was hydrangeas, peonies, bedding plants, English ivy, gernamiums and bay trees.

W. H. Hatfield.

GLADIOLUS SNOW KING.



Snow King, the Whitest White

This beautiful gladiolus novelty will be introduced next season by John Lewis Childs of Flowerfield, N. Y. It is destined to be of great value to florists as it is a good forcer and the flowers are of good substance. An important characteristic of Snow King is that the flowers stay white and do not turn pink with age as most white varieties do.

JUNE!

Roses pink and white and crimson,
Roses dwarf and roses tall,
Wet with dew, or warm with sunshine,
Nod within my garden wall!
Droning bees, and darting fireflies,
Butterflies and birds in tune,
Happy children, laughing, lilting,
Tell thy presence, lovely June!

At your breath the buds of May time
Burst from bondage, opening wide,
Balmy winds that sing of summer
Cool and play on every side
Days ablaze with golden sunlight!
Silent nights, and crystal moon!
Month of Roses, Love and Promise—
Oh, to keep thee, gracious June!

Our Dumb Animals.

CLUBS AND SOCIETIES

AMERICAN PEONY SOCIETY.

Address of President B. H. Farr Before the Society in Chicago.

The year has been rather one of rest from the activities of previous season, gathering together our resources and materials preparatory to the publication of the society's book on the Peony, to which end we have been steadily working for some years.

The season has been a most trying one, the intense heat making it unusually difficult to hold flowers in good form for any length of time. It is again demonstrated that a peony show must depend principally upon the local growers for its success, and, while the possibility of holding flowers in cold storage and shipping long distances for exhibition has been amply demonstrated, the great mass effect which is so necessary for an attractive show must come from purely local growers, and the peony growers of Chicago and vicinity who have brought in such great quantities of blooms have made the present show the success it is.

It is unfortunate that as a cut flower commercially, the peony is in most localities considered only as a Memorial Day proposition. Millions of them are sold at high prices before, and millions almost wasted after that day. No flower keeps better when properly handled, and no flower makes so fine a show for the cost as the peony, for all decorative effects, and there seems to be no good reason why they should not be eagerly sought for and used for all purposes during their season, from the earliest to the latest. It seems to be largely up to the retail dealer to push the peony more, and to educate and stimulate their use, by making more of an effort to handle a better class of stock in better shape.

Among the amateurs the peony continues to increase in popularity, the demand for the better and higher priced varieties being always greater than the supply, with prices as a consequence tending to increase rather than decrease. Occasionally I have heard it said that the American Peony Society is made up of commercial growers whose interest in the peony is a purely selfish one. How far from the truth this is will be seen by looking over the membership list, of whom over two-thirds are exclusively amateurs. Among those remaining who are classed as nurserymen or florists only a few may be said to be in the peony business. The majority of those members who are classed as being in "the trade" are amateurs so far as their interest in the peony goes, their collections being grown largely as a hobby because of the personal interest they take in the flower and for their own gratification.

Last year through the completion of the work at Cornell and the sale of the remaining plants, the way was opened for the publication of the society's official work on the Peony. The material is ready, but in order that there might be as few errors as possible, it was thought better to wait until after another blooming season had passed, in the hope that any existing errors might be detected, and descriptions of additional varieties obtained. This book is to be published by the society as a whole and not by a few members, and that all members might assist circulars were sent to all with a lot of questions and request that all look over their bulletins carefully, study their plants in bloom and send in to the committee any information, criticism or suggestion, and it will be taken for granted by the committee that those not heard from accepted and approve of the committee's work.

During the past year, permanent planting at Cornell has been largely augmented by the addition of varieties not previously to be found there, so that now most of the varieties described in the Bulletins may be seen and studied there by anyone interested. The season at Ithaca is very late, and a similar collection for the South and easily accessible, was suggested, and last year the United States Government agreed to co-operate with the American Peony Society in the establishment of such a collection at the Arlington Experimental Grounds at Washington, D. C., a place visited yearly by many thousands of people. Negotiations are now in progress along the same line as the collection of the American Rose Society at the same place. While this matter was acted on favorably by the society at its meeting last year, I desire to give the members present at this meeting an opportunity to ratify that action and their willingness to give this place their active support, as this collection will have to be made up by contribution of plants from the members individually.

Another subject that was talked of last year, and which should receive fuller consideration, is the advisability in view of the great distance between the East and West and the difference in blooming time of Northern and Southern plants, that the society holding its business meeting at but one point might be officially represented in exhibitions at two or more points, in conjunction with other horticultural societies.

AMERICAN ASSOCIATION OF NURSERYMEN.

Report of John Hall, Secretary.

To the Members of the American Association of Nurserymen:

It is a pleasurable, but at the same time a sad duty that falls to your secretary every twelve months when we are assembled in convention. Pleasurable in the recollection of the incidents which have sprung up in the extensive correspondence he has had with members; pleasurable also in the realization of reasonably favorable results in the canvass for new memberships and patronage for the Badge Book. Of course there is the memory of strenuous pursuits of those whose responses were tardy—exasperatingly so, sometimes—experiences softened only by the thought that these same delinquents were having a good packing season and were then busily engaged, like myself, in the pursuit of collections. When the time came to close the forms for the printer, we even ventured to assume the responsibility of entering the renewals of some members who had ignored our numerous reminders and appeals. There was satisfaction, however, in these cases, in receiving the thanks and apologies of the delinquents when they honored my drafts.

I have hinted that there is also a sad feature in connection with the secretary's report, and that is the chronicling of the visits of the Death Angel among our membership. Our own beloved Longfellow wrote:

"There is no flock, however watched and tended,
But one dead lamb is there!
There is no fireside, howsoe'er defended,
But has one vacant chair."

July 4, 1913, Mrs. F. W. Kelsey, wife of F. W. Kelsey, Orange, N. J.

August 18, 1913, Charles M. Hooker, Rochester, N. Y., aged 81 years. We were able to get a brief notice in the 1913 Proceedings and shall hope to make more extended notice in the next issue.

November 4, 1913, John Rice, Geneva, N. Y., aged 70 years.

In January last, at Siasconset, Mass., Mrs. John Craig, widow of the late Professor John Craig.

Jan. 15, 1914, W. S. Leonard, Hilton, N. Y.

Financial Statement of Secretary John Hall.

RECEIPTS.

1913.		
June 19.	Balance in bank and on hand	$ 125.40
Dec. 15.	Memberships and other sources	71.00
1914.		
June 16.	Memberships, advts. for badge book, &c.	2,880.75
		$3,077.15

DISBURSEMENTS.

1914.		
April 22.	Pd. Peter Youngers, treas.	$ 196.40
May 27.	Pd. Peter Youngers, treas.	2,200.00
June 16.	Pd. Peter Youngers, treas.	599.60
	Balance	81.15
		$3,077.15

OYSTER BAY HORTICULTURAL SOCIETY.

The annual exhibition of this society was held in the Fireman's Hall, Thursday, June 18, and was a great success. The roses, sweet peas and peonies were in fine condition. The winners were as follows:

H. P. roses, B. Stern, gard. W. Robertson; H. T. roses, E. F. Whitney, gard. Jas. Duckham; 3 varieties H. P. roses, white, A. Straus, gard. Michael O'Neil; pink, F. N. Doubleday, gard. F. Gale; 6 H. P. roses, white, Mrs. C. L. Tiffany, gard. F. Kyle; pink, Chas. Moyses; any other color, F. Kyle; 3 H. P. roses, white, pink and any other color, all won by Chas. Moyses; 6 Teas, white, pink and any other color, won by W. Robertson; 3 Teas, white, F. Gale; pink, Chas. Moyses; any other color, F. Gale; climbing roses, Jas. Duckham; vase climbing roses, John A. Garver, gard. J. Lorisick.

Hardy flowers, 1st John Lorisick, 2nd A.

Walker. Decorations 1st John Lorisick, 2nd T. Kyle. Sweet William and Digitalis, Jas. Duckham. Campanula, John Lorisick. 6 varieties Sweet Peas, W. Robertson. Peonies, Michael O'Neil. Bouquet of hardy flowers hardy flowering shrubs and specimen. Nephrolepis, John Lorisick. specimen fern, any variety, J. T. Ingram. foliage plant, John Lorisick; 3 plants of Orchids in flower, John T. Ingram. specimen Hydrangeas, F. Kyle; Begonia, John Lorisick; any other plant in pot, David Fothersall; Sweet Peas, President J. T. Ingram's prize, 1st W. Robertson, 2nd Jas. Duckham.

Cultural certificates to W. Robertson, roses and sweet peas; J. Duckham, roses; T. A. Havemeyer, peonies, hardy flowers and shrubs; E. M. Townsend, strawberries; A. S. Hodenpyle, vegetables. Honorable mention to J. T. Ingram, climbing roses.

F. KIRKHAM, Sec'y.

AMERICAN ROSE SOCIETY.

Hartford Rose Garden.

On June 19th the representatives of the American Rose Society visited officially the Rose Test Garden at Elizabeth Park, Hartford, Conn., to take up and examine the forty-four specimen plants that were put out at the formation of the garden. The judges were: John F. Huss, Hartford, Conn., S. S. Pennock, Philadelphia, Pa., and W. F. Gude, Washington, D. C. The recommendation made by the judges in regard to the rose which seemed to attract the most attention is as follows: That the award of the silver medal be made to Mr. John Cook of Baltimore, Md., for the rose "Radiance" in recognition of its superior merits as a bedding rose, signed, John F. Huss, S. S. Pennock, W. F. Gude.

There were present at the dinner, Supt. of Parks, Geo. W. Parker, Hartford, Conn.; Wallace R. Pierson, president of the American Rose Society; Robert Pyle, S. S. Pennock, Prof. A. C. Beal of Cornell University, Leonard Barron, J. Harrison Dick, Alex. Montgomery, Alex. Montgomery, Jr., J. H. MacFarlane, Edw. Norburg, A. N. Pierson, A. Gude, W. F. Gude, Geo. Johannes, R. T. Beers, John F. Huss, Alex. Cumming, Jr., Louis J. Reuter, Benj. Hammond and Messrs. Green, Anderson, Clark, Rigby and Morgan.

At the dinner an account of the Washington Rose Garden at Arlington was reported upon by W. F. Gude who complimented Messrs. Cumming, Pyle and Mulford for the work they had done in bringing about this matter; that two acres had been laid out for the work along the national highway that is to run from Quebec to Florida and there were three hundred and fifty varieties of roses already there. Prof. Beal, speaking for Ithaca, said, that much interest had been shown not only by growers of plants who had furnished them so that the varieties exceed three-hundred but also from a large number of local amateur societies; that at Cornell there were some hundreds of students all of whom became more of less acquainted and interested in these test gardens, and that they carried away with them an interest in the beauties that follow the cultivation of flowers in any place or section.

The Executive Committee of the American Rose Society also met and have awarded formally the Hubbard Gold Medal to M. H. Walsh, Woods Hole, Mass., for the rose "Excelsa." The display of this rose in the garden showed it to be a most vigorous plant, and the concensus of opinion received during the past three months concerning the rose caused the award to be properly made for that rose. The medals both for Mr. Walsh and Mr. Cook will be presented at the S. A. F. convention in Boston in August.



VIEW IN ROSE GARDEN, ELIZABETH PARK, HARTFORD, CONN.
25,000 People Pass Through this Garden on "Rose Sunday."

The day that was spent at Hartford was damp and cloudy which prevented the taking of any pictures. The general layout of the rose garden aside from the test garden in Elizabeth Park is something that certainly is very beautiful, and something that the city of Hartford can well feel proud of.

BENJAMIN HAMMOND, Sec'y.

Beacon, N. Y., June 20, 1914.

Mr. Benj. Hammond,
Dear Sir:

Your call for the meeting at the Elizabeth Rose Garden is received and I wish very much that I could answer to same in person. This, however, is impossible, but I shall be with you in thoughts at least.

A short report on the condition of our Lyndale Park Rose Garden, at the time of this writing may be of interest to you and those present at your meeting. I spent an hour at our Garden yesterday morning, and a week from now it will be at its best, which is ten days earlier than last year. We have had splendid growing weather all spring, but just now have a little too much rain, and not enough sunshine. Nevertheless, our plants are still free from mildew, and in perfect health. We have only two exhibits in our A. R. S. Test garden, namely: the two Climbers, Dazzling Red and Bridal Wreath, by W. A. Manda; and the new H. R. Rose Defiance, by C. Kress. They are all doing well. The climbers are in bloom and Defiance shows promising buds. The following were in full bloom in the garden and were very satisfactory:

H. T. Mary, Countess of Ilchester, Mrs. Leonard Petrie, Madame Jules Grolez, Killarney, pink and white, Lady Ashtown, Gruss an Teplitz, Laurent Carle, General MacArthur, Farben Koenigin.

H. R.—Jules Margotin, Anna de Diesbach, Mrs. John Laing, Captain Hayward, Prince Camille de Rohan, Mrs. Geo. Dickson, Hugh Dickson, Frau Karl Druschki, Madame Gabrielle Luizet, Baroness Rothschild, Oscar Cordell, Mabel Morrison, Ulrich Brunner.

Every one of our 200 varieties will be in bloom by the end of this week, and I wish your meeting could adjourn from Hartford to Minneapolis to meet here the 21st, which as far as the time and distance are concerned, would be possible. The invitation is most cordially extended.

THEO. WIRTH.

THE LANCASTER COUNTY FLORISTS' CLUB.

June 18th found us all back on the job for keeping up our record breaking attendance, there being very few faces missing.

A paper on Asters, by Chas. B. Weaver, Ronks, Pa., and one on Gladiolus, by Ira H. Landis, of Paradise, Pa., were the literary events of the evening.

The flower show committee reported having secured the hall for Nov. 6th and 7th and notified the members that they were going to visit every establishment in Lancaster and Lancaster County early in Oct. and expected to find an exhibit being prepared for the show at every place. Mr. Heimenze, the owner of the finest dance and social hall in the city is going to allow us the use of it for this show, we allowing him the proper financial equivalent for it. A feature of the show will be amateur exhibits and as Lancaster is a pretty good market for novelties we expect to have some of the newer varieties on exhibition from out of town growers. Albert M. Herr, Lancaster, Pa., has charge of this end and a letter addressed to him may put you in touch with a good thing.

The cooperative buying committee had an out-of-town man put up a proposition to us. This is becoming a regular feature of the meeting and is going to save us a lot of money when it gets into its final working shape.

The next meeting will be a picnic on July 16th at Mt. Gretna, a popular summer resort about thirty miles west of Lancaster. Out of town florists who may wish to enjoy this with us can correspond with Elmer Weaver of Ronks, Pa.

WESTCHESTER & FAIRFIELD HORTICULTURAL SOCIETY.

The summer show of this society was held June 19-20 on the grounds of the United Hospital at Portchester, N. Y., and was a great success. The hospital management provided a spacious tent that was pitched directly over a water lily pond that is a permanent feature of the premises, and formed a fine setting for the exhibits that were grouped around the inside of the tent. The wide strip of lawn around the pool was utilized for the display of individual plants, vases of flowers in the special classes, baskets and other made-up work. The vegetable classes were so placed that groups of flowering plants were placed on either side of them, and the effect was novel, obviating the usual commonplace look that so often obtains in sections set aside for vegetables. Competition was very keen in nearly every class, and the exhibition throughout was notable for the high standard of excellence. The exhibits of Mrs. J. E. Rees, of Greenwich, Ct., attracted much attention, as she employs a woman gardener, Miss Beatrice Dell. Tasteful arrangement and fine quality marked her exhibits.

Several novelties of recent introduction were noted, among these being Salvia Greggi, hardy shrub; climbing American Beauty rose, a clean grower; two hardy nympheas in the exhibit of Henry A. Dreer, Inc., John Hay in charge. The Dreer exhibit was awarded a certificate of merit. Certificates of merit were also awarded to George E. Baldwin, Mamaroneck, N. Y., for display of orchid plants in bloom; Julius Roehrs Company, do; John I. Downey, gard. Thomas Ryan for collection of sweet peas. Leonard Petrie received honorable mention for collection of geraniums of recent introduction. A cultural certificate was awarded Wm. Shillaber, Essex Fels, N. J., gard. J. P. Sorenson, for display of old-fashioned flowers. First prize in table decorations went to Joseph Lorie, Mamaroneck, who combined pink and white sweet peas with adiantum; 2nd, Fred Lagerstom, Greenwich, Ct., rambler roses; 3rd, James Linane, Rye, N. Y., Deutzia candidissima and Heuchera sanguinea. Other awards in the competitive classes were as follows:

H. P. roses, 12 varieties, 3 each: 1st, Mrs. A. P. Stokes, Noroton, Conn., gard. A. Whitelaw; 2nd, Mrs. G. D. Barron, Rye, N. Y., gard. Jas. Linane. H. P. roses, 6 varieties, 3 each: 1st, E. C. Benedict, gard. Robert Allen; 2nd, Robert Mallory, Portchester, N. Y., gard. Wm. Smith; 3rd, Mrs. Henry Schaefer, Greenwich, Conn., gard. Ed. Stumpp. Assorted H. P. roses: 1st, Mrs. F. A. Constable, Mamaroneck, N. Y., gard. Jas. Stuart; 2nd, Mrs. G. D. Barron; 3rd, Mrs. Wm. G. Nichols, gard. John McAllister. H. T. roses, 12 varieties, 3 each: 1st, Mrs. A. P. Stokes; 2nd, Mrs. H. S. Bowen, Greenwich, Conn., gard. John Watts. Vase of roses arranged for effect: 1st, Robert Mallory; 2nd, Robert Grunnert; 3rd, C. T. Willis, Greenwich, Conn., gard. Martin Glendon. Collection of roses to cover 50 sq. ft.: 1st, H. Darlington, Mamaroneck, gard, P. W. Popp. 12 blooms Frau Karl Druschki: 1st, H. Darlington; 2nd, Mrs. Wm. Nichols; 3rd, Robert Grunnert.

Collection hardy flowers, 18 species: 1st, Mrs. F. A. Constable; 2nd, Mrs. Wm. G. Nichols; 3rd, H. Darlington. Collection hardy flowers, 9 species: 1st, Robert Mallory; 2nd, Mrs. A. A. Anderson, gard. Robert Williamson; 3rd, Mrs. J. E. Rantz Rees, Greenwich, Conn., gard. Miss Beatrice Dell. Flowers from hardy shrubs: 1st, G. D. Barron; 2nd, Mrs. I. C. Bruce, Greenwich, Conn., gard. John Andrew; 3rd, H. Darlington. Sweet peas, 18 varieties, 25 sprays each: 1st, D. G. Reid. Sweet peas, 6 varieties, 15 sprays each: Mrs. A. A. Anderson; 2nd, Mrs. C. A. Gould, Greenwich, Conn., gard. W. H. Waterenowski; 3rd, Mrs. F. A. Constable. Sweet peas, 3 varieties, 15 sprays each: 1st, Mrs. C. A. Gould; 2nd, Robert Grunnert. Basket of sweet peas arranged for effect: 1st, Mrs. Wm. G. Nichols; 2nd, H. Darlington. Vase of sweet peas arranged for effect: 1st, Mrs. A. A. Anderson; 2nd, Wm. Shillaber. Vase of Iris: 1st, Mrs. J. E. R. Rees; 2nd, H. Darlington. Vase of lilies: 1st, Robert Mallory. Vase of moss roses, special prize: H. Darlington.

Pair of palms: 1st, Mrs. F. A. Constable; 2nd, Mrs. A. A. Anderson. Specimen palm: Mrs. G. F. Chamberlain; 2nd, Mrs. F. A. Constable. Foliage plant other than palm: 1st, Mrs. F. A. Constable; 2nd, John I. Downey. Pair hydrangeas: 1st, Chas. Mallny; 2nd, G. D. Barron. Specimen hydrangea: 1st, John I. Downey.

Among the winners in the vegetable classes were Adrian Iselin, Jr., New Rochelle, gard. Joseph Tiernan; H. F. Shoemaker, Riverside, Conn., gard. James Maclean; Arnold Schleet, Saugatuck, Conn., gard. Edmund Lawrence; J. A. Topping, Greenwich, Conn., gard. F. Lagerstom; Mrs. Albert Crane, Stamford, Conn., gard. Alex. Geddes.

The judges were Wm. Duckham, Wm. Scott, W. H. Waite and Chas. H. Totty. P. W. Popp.

NEW BEDFORD HORTICULTURAL SOCIETY.

The third annual peony exhibition of the New Bedford Horticultural Society held in the Library Building on Wednesday, June 17, was a marked success notwithstanding the most trying season experienced in years. An open winter coupled with the natural freezing and thawing occasioned by fluctuating temperature and an almost entire absence of snow took much of their strength, while a very fickle May and June caused many buds to blast or mature in two or three days. In some cases the late flowering varieties were going by and the mid-season flowers were not really open. Through the centre of the hall was a long table entirely devoted to peonies the principal exhibitors being E. J. Shaylor of Auburndale with seventy-five beautiful specimens for exhibition only, of the latest varieties, and J. H. Hathaway, an amateur grower of this city with about the same number, conspicuous among which were fine specimens of Japanese singles.

Among Mr. Shaylor's exhibit were to be seen four of his seedlings which do credit to any hybridizer, viz., Georgiana Shaylor, a lovely cream color with peach shadings; Francis Shaylor, creamy white with yellow stamens between the rows of petals; a red seedling strongly resembling Adolph Rousseau, but darker and richer in color, and one resembling Mme. August Dessert only much lighter in tone. The writer recently visited Mr. Shaylor's farm and was convinced that he had seedlings developed and developing which would take rank with any of Europe's best, the most notable being Mary Woodbury Shaylor. This is doubtless his finest production to date and ranks with Lady Alex Duff.

The other principal exhibitors were D. F. Roy, "The Moorings" Marion, who secured the Henry F. Michell silver medal for the best collection; James Garthly, gardener for the Rogers' estate, with a fine bank of peonies and roses not in competition, and Wm. Keith, gardener for T. M. Stetson with a large table of foliage and flowering plants which made a fine setting for the flowers.

J. H. Hathaway and Wm. F. Turner were awarded bronze medals for their general exhibits and W. F. Turner was first and J. H. Hathaway second in the class for six distinct varieties. W. F. Turner also took first for vase of Japanese peonies, one variety and first for vase of Japanese in variety. J. H. McVicker beat all competitors in the class for six reds with excellent specimens of Armand Rousseau. F. G. Tripp was winner in all classes for three of a kind and specimen blooms and deserves much credit as his space is very limited. He had seven first prizes to his credit.

W. F. Turner.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual peony exhibition was held in Horticultural Hall, June 20th and 21st. While some doubt was felt, owing to the backwardness of the season, of its success it certainly compared favorably with those held in former years. The flowers displayed were all of good quality and kept well and nearly filled the large hall. The Mt. Desert Nurseries and R. & J. Farquhar & Co., made an exceptionally good display. Following is a list of the awards.

Herbaceous Peonies, twenty named varieties, double, one flower of each: 1st, A. H. Fewkes; 2nd, James McKissock; 3rd, T. C. Thurlow's Sons Co. Ten varieties, double, three flowers of each: 1st, T. C. Thurlow's Sons Co.; 2nd, A. W. Preston; 3rd, James McKissock. Specimen bloom, double: 1st, A. H. Fewkes; 2nd, James McKissock. Twelve varieties, single, one bloom of each: 1st, T. C. Thurlow's Sons Co. Twelve varieties, Japanese single: 1st, T. C. Thurlow's Sons Co. Six double varieties, white: 1st, Dr. C. S. Minot; 2nd, James McKissock; 3rd, T. C. Thurlow's Sons Co. Six double varieties, rose pink: 1st, James McKissock. Six double varieties, salmon pink: 1st, T. C. Thurlow's Sons Co. Six double varieties, crimson: 1st, T. C. Thurlow's Sons Co. Six double varieties, any other color: 1st, A. W. Preston. Twenty-five blooms, double, white or blush: 1st, H. F. Chase; 2nd, A. H. Fewkes; 3rd, Wm. Whitman. Twenty-five blooms, double, pink or rose: 1st, T. C. Thurlow's Sons Co.; 2nd, T. C. Thurlow's Sons Co.; 3rd, James McKissock. Twenty-five blooms, double, red or crimson: 1st, T. C. Thurlow's Sons Co.; 2nd, Wilfrid Wheeler. Twelve named varieties, double, one flower of each, for non-commercial growers only: 1st, C. S. Minot; 2nd, Wm. Whitman; 3rd, A. W. Preston. Twelve blooms, pink, for private gardeners only: 1st, Wm. Whitman. Twelve blooms, white, for private gardeners only: 1st, Wm. Whitman; 2nd, A. W. Preston. Twelve blooms, red, for private gardeners only: 1st, Wm. Whitman; 2nd, Wm. Whitman.

Gratuities: Wellesley Nurseries, Wm. Whitman, T. C. Thurlow's Sons Co., J. K. Alexander, A. W. Preston, A. H. Fewkes, peonies; Wm. Whitman, hybrid roses; and Kalmia latifolia; Lowthorpe School of Horticulture, Sweet Williams; Eastern Nurseries, Old Town Nurseries; Perennials; T. C. Thurlow's Sons Co., Mrs. E. M. Gill, Mrs. M. W. Chadbourne, cut flowers.

Silver Medals: Charles S. Minot, for Peony Mrs. Charles S. Minot; R. & J. Farquhar & Co., Peonies; Mt. Desert Nurseries, for Eremuri and herbaceous flowers.

Certificate of Merit: Wheeler & Co., three specimens of Dendrobium formosum, summer-flowering variety.

Honorable Mention: Jackson Dawson, Rose Baby Dawson; Charles S. Minot, Peony R. T. Jackson; Jackson Dawson, collection of seedling roses.

HYDRANGEAS

EXTRA LARGE PLANTS IN TUBS AND BARRELS FOR SUMMER FLOWERING

We make a specialty of hydrangeas, and have a very large stock of plants which have been kept backward and which are now just beginning to set buds. They are in fine shape for shipment, and will bloom from June to August. Plants are heavily budded, and are exceptionally good value.

We have always made a specialty of large hydrangeas for summer-blooming, and we never had such a fine stock as we have at this time. We have a very large stock, especially of the plants in barrels, and can supply carload lots.

Fine plants in tubs.....$2.00 and $3.00 each.
Extra fine specimens in half-barrels.....$5.00, $7.50 and $10.00 each.

F. R. PIERSON COMPANY
TARRYTOWN-ON-HUDSON, NEW YORK

SOCIETY OF AMERICAN FLORISTS

Department of Plant Registration.

Public notice is hereby given that as no objection has been filed against the registration of the Geranium Gen. Funston by Peter Henderson & Co., 35-37 Cortlandt St., New York City, same becomes complete.

As no objection has been filed to the registration of the Rose Climbing American Beauty by The United States Nursery Co., (S. W. Crowell, Manager), Roseacres, Mississippi, same becomes complete.

JOHN YOUNG, Sec'y.

June 26, 1914.

CONVENTION NOTES.

A well attended meeting was held Tuesday, at the Parker House, Boston, of the local executive committee and plans of preparation relative to the program of sports for the coming S. A. F. Convention in August, were discussed. Aside from the local members, there were present John Young, secretary of the society and Chas. E. Critchell, national chairman of the committee on sports. Vice-president Patrick Welch presided.

Chicago to Boston.

The Chicago Florists' Club has arranged for the President's Special, Chicago, Niagara Falls, Boston, leaving Chicago, Sunday, August 16, at 8.00 P. M., Toledo 1.20 A. M., Cleveland 5.55 A. M.

President Wirth of the Society of American Florists will leave Chicago, Sunday evening, August 16, on special train over the Lake Shore & Michigan Southern Railroads, LaSalle street station, at 8.00 P. M. with the Chicago Florists' Club and others desirous of joining the convention party. This train is due at Niagara Falls Monday noon at 12.04 o'clock and several hours will be spent there, the party leaving again at 3.50 P. M. the same day and due in Boston, Tuesday, August 18, at 7.05 A. M. The fare from Chicago to Boston and return is $30, good for 30 days. Berths, Chicago to Boston (one way) lower, $5.50; upper $4.40. The foregoing rates apply only to Boston and return. Many extended tours and side trips may be arranged returning on application to local transportation agents at equally low rates, including New York, Philadelphia, Boston, Thousand Islands, Hudson River, etc. All members of the Society of American Florists and their friends from points north, west and south of Chicago, who wish to join the president's party at Chicago should secure tickets reading over the Lake Shore & Michigan Southern Railroad and New York Central, Chicago to Boston and return.

Reservations will be made on application to G. K. Thompson, 100 South Clark street, Chicago, Ill., telephone Randolph 5300, who will cheerfully supply all other information regarding this trip.

W. L. PALINSKY, A. MILLER, M. BARKER (Chairman), 440 S. Dearborn St., Chicago, Ill.; Transportation Committee Chicago Florists' Club.

SWEET PEA SHOW PHILADELPHIA.

Considering the warm weather we have had, the display of sweet peas on the 23rd, held under the auspices of the Philadelphia Horticultural Society, was very creditable, although not as extensive as we have often seen on other occasions. The chief prize winners were Ellis, Pepper, Frazier, McFadden and McKean. All the prizes were donated, the donors being Dreer, Michell, Waterer and Bodine. A nice display of hardy perennials was an attractive adjunct of the show.

SACRIFICE TO MAKE ROOM FOR MUMS

2000 2½ inch Egg Plants N. Y. Improved; 1500 2½ inch Sweet Pepper Bull Nose; 2000 2½ inch Stone and Ponderosa Tomato; all at $1.00 per 100; $8.00 per 1000.

2½ inch Lobelia Crystal Palace in bloom; 2½ inch Ice Pinks (mesembryanthemum) in bloom; 2½ inch Single Petunias, assorted; 2½ inch Sweet Sultans; Late Branching Asters, assorted; 2½ inch Calendulas; Zinnias; Coleus, all kinds; at $1.50 per 100.

Cannas Henderson and Vaughan; Salvia Bonfire; at $3.00 per 100; 3 inch pots.

Cash with order, please.

I. M. RAYNER, GREENPORT, N. Y.

Flowering, Decorative and Vegetable Plants

In abundance Always on Hand. See our Display Advertisement in "Horticulture," May 23rd, Page 768.

Correspondence Solicited.

ALONZO J. BRYAN

Wholesale Florist, WASHINGTON, N. J.

ORCHIDS

Established Plants and Freshly Imported

Julius Roehrs Co.

Rutherford, N. J.



CATTLEYAS

Finest Collection in 5 Years

TRIANAE—First to Sheath, Earliest to Flower. Full formed sheath. Perfect Leads. Heavy Foliage.

MENDELII—Condition Perfect. Dormant Leads and splendid leaves.

LABIATA—Fine Plants, Semi Established. Any size. Send for prices.

FREEMAN ORCHID CO.

FALL RIVER, MASS.

ORCHIDS FRESHLY IMPORTED

We have unpacked the following in fine condition. CATTLEYAS: Percivalliana, Gaskelliana, speciosissima. DENDROBIUMS: Formosum, Wardianum, nobile, densiflorum, Schuitzii. VANDAS: Coerulea, Batemannii, Luzonica, Imschootiana. PHALAENOPSIS: amabilis, Schilleriana. Spathoglottis plicata.

Write for Special List No. 55.

LAGER & HURRELL, Summit, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World

SANDER, St. Albans, England

and 258 Broadway, Room 721 NEW YORK CITY

Here are Three New 'Mums You Ought to Grow

ALICE SALOMON.

Pure white. Larger than Chadwick, easy to grow. Ready to cut October 10 to October 20. Rooted Cuttings, $7.00 per 100; 2½ in., $9.00 per 100.

GOLDEN SALOMON.

A sport of Alice Salomon. The same in every respect except in color, which is as its name implies, a golden yellow. Rooted cuttings, $20.00 per 100; 2½ in., $22.00 per 100.

CHIEFTAIN.

A pink described by the E. G. Hill Co., as a Pink Bonnaffon ready to cut about 10 days earlier than Engnetted. Rooted cuttings, $12.00 per 100; 2½-in., $14.00 per 100.

We believe that the above 'mums are valuable additions to the lists of commercial varieties and recommend them as such

Also Have in Quantity the Following Varieties. ORDER TODAY.

Rooted Cuttings, $2.50 per 100; $22.00 per 1000; 2½-in., $3.00 per 100; $27.00 per 1000.

WHITE—Smith's Advance, October Frost, Lynwood Hall, Chas. Razer, Elsie Papworth, Timothy Eaton (R. C. only), Chadwick (R. C. only).
YELLOW—Chrysolora, Chrysus, Bonnaffon, Yellow Eaton, Ramapo.
PINK—McNiece, Engnehard, R. E. Laeben, Maud Dean, Well's Late Pink.
BRONZE—O. H. Kahn.

Pompons

Rooted Cuttings, $3 per 100
2½-inch, 4 per 100

WHITE—Waco, Alice, Helen Newberry, Kenmuir.
RED—Lagravere.
YELLOW—Kiku, Skibo, Madge, Big Baby, Baby, Klondike, Quinola.
PINK—Nellie Bly, Alvina.
BRONZE—Madam Laporte, Mrs. Beu.

Singles

Mrs. John Fisher—Light pink.
Dark Pink—Single.
Parkinson—Single yellow.

NEW SINGLES Rooted Cuttings, $8.00 per 100, 2½-inch, $10.00 per 100

MENSA

This is the splendid white that attracted so much attention at the Fall Flower Shows and is considered the best single white in the market for cut flowers or plants.

PAULINE

This variety sported with us. It is a dark single bronze, very attractive and is a splendid grower. Order now of these and you will not be disappointed.

SUPREME QUALITY ROSE STOCK

BEST PLANTS THAT MONEY CAN BUY. Growers are always on the lookout for quality rose stock. They realize that the best at the start is the cheapest in the end. When buying plants it is always best to secure your stock from people that have a reputation for producing the best there is to be had. You cannot get any better stock than that which we are offering, for we always aim to give the purchaser the best that our long years of experience enable us to do.

GRAFTED ROSES

2½-in. Plants.

Pink Killarney, White Killarney, Milady, Killarney Queen, Mrs. Aaron Ward, Mrs. Taft (Bulgarie or Antoine Rivoire), Richmond, Mrs. Geo. Shawyer, at $12.00 per 100; $100.00 per 1000.

Mrs. Chas. Russell, grafted, 2½-in., at $15.00 per 100; $120.00 per 1000.

Killarney Brilliant, grafted, 2½-in., at $30.00 per 100; $250.00 per 1000; 3½-in., $35.00 per 100; $300.00 per 1000.

2½-in. Plants.

Richmond, 2½-in., $90.00 per 1000; 3½-in., $120.00 per 1000. Richmond and Milady are extra strong plants.

3½-in. Grafted.

Milady, Mrs. Geo. Shawyer, Bulgarie, Killarney Queen, Pink Killarney, Aaron Ward, $15.00 per 100; $135.00 per 1000.

OWN ROOT ROSES

2½-in. Plants.

Killarney, Mrs. Taft, (Bulgarie or Antoine Rivoire) Wards, Milady, at $6.00 per 100; $55.00 per 1000.

Sunburst, $7.50 per 100; $70 per 1000.

3½-in. Plants.

Pink Killarney, Mrs. Ward, Mrs. Geo. Shawyer, Milady at $8.50 per 100; $75.00 per 1000.

Richmond at $7 per 100; $65.00 per 1000.

Bulgarie, 3½-in., $8.50 per 100; $75.00 per 1000.

BEAUTIES 3-inch

$6.00 per 100; $55.00 per 1000. Ready to ship. All first class stock. 2-in. Beauties are all sold.

Orders will be taken for cut back benched plants, when these are on hand, for **White Killarney, Mrs. Ward, Double Pink Killarney** and **Melody,** at $5.00 per 100; $40.00 per 1000. **Beauties** at $6.00 per 100; $55.00 per 1000.

These prices are in effect now; 3% for cash in 10 days.

POEHLMANN BROS. CO.

Box 127 MORTON GROVE, ILL.

PERSONAL.

P. Joseph Lynch of New Castle, Ind., has been nominated for Congress.

Harold Joseph Patten, son of M. A. Patten, Tewksbury, Mass., and Miss Josephine N. Millett, were married on June 10.

Will Asseck, of the W. C. Smith Floral Co., St. Louis, broke his arm last week slipping on the floor during the morning rush.

F. A. Ward, for several years engaged in the nursery business at Cleburne, Texas, has removed with his family to St. Cloud, Minn., where he will represent a wholesale nursery firm.

C. Thorley Bridgeman and Roger Lane Bridgeman, sons of W. Bridgeman, with J. H. Small & Sons, New York, sailed on the St. Paul, June 12th, for England, thus spending their vacations from college and school.

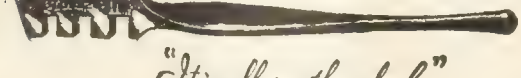
Several hundred guests prominent in greater Boston were present at the marriage of Mildred Evelyn Baker, daughter of Mr. and Mrs. Madison Mayall Baker, of 10 George street, Chelsea, Mass., and George Herbert Grey, son of Thomas J. Grey, the veteran seedsman, of 19 Jefferson avenue, Chelsea, Mass., Tuesday evening, June 23.

CLUB AND SOCIETY NOTES.

The Rochester Florists' Club at their last meeting decided to dispense with the Flower Show this coming fall. It means so much work and time that it is the unanimous opinion of all to wait until another year and then make a big show.

The Chicago Florists' Club have completed their plans for a picnic July 19, at St. Paul's Park, Morton Grove. Round trip only 30c. Trains leave Chicago 9.35, 12.40 and 1.50, return 5.35, 6.50 and 10.15. Dancing, games, etc., with prizes will fill the program. Base ball at 3 P. M. Milwaukee florists and their families are guests.

More Red Devil Cutters Used Annually Than All Others Combined



"It's all in the wheel"

Send 6c. for sample No. 024 and Booklet 40 styles, and understand why.

SEND FOR BOOKLET ANY-HOW.

SMITH & HEMENWAY CO., . . 161 CHAMBERS ST., NEW YORK

VISITORS' REGISTER.

Philadelphia—C. B. Coe, D. M. Ferry & Co., Detroit, Mich.; Walter Mott, Beacon, N. Y.; Antoine Leuthy, Roslindale, Mass.

St. Louis Visitors: Mr. Blackshaw, of Randall's, Chicago; H. Balsley, Detroit, Mich.; C. Farley, of the Denison Greenhouses, Denison, Tex.

Boston—R. Karlstrom, representing W. A. Manda, Inc., So. Orange, N. J.; John Young, New York; C. E. Critchell, Cincinnati, O.; W. H. Lutton, Jersey City, N. J.

Cincinnati—J. E. Quallich, representing A. L. Randall, Chicago, Ill.; Mr. Donaldson, Sparta, Ky.; F. W. Romer, representing F. R. & P. M. Pierson, Scarborough, N. Y.; Leo Henman, Chicago, Ill. and Miss Anna Weiland, Evanston, Ill.

Chicago—George Dinkel, Springfield, Ill.; Aug. Mirring, E. St. Louis, Mo.; C. B. Knickman, representing McHutchison, N. Y.; Miss Drake, Kenosha, Wis.; Thos. Heaven, Benton Harbor, Mich.; Wm. Swinbauk, Sycamore, Ill.; D. Scott Geddis, St. Louis, Mo.; Maurice Fuld, representing Knight & Struck Co., N. Y.; Mr. Curtis, Omaha, Neb.; E. Farley, Dennison, Texas.

Goshen, Ind. — The Staack Greenhouses at 2702 Sixth avenue sustained a damage of about $8,000 during the storm of Thursday evening, June 6th.

VIBURNUM SARGENTII.

This beautiful shrub which furnishes the subject for our cover page illustration has been planted quite freely along the Arborway in the Boston Park System. It is rather similar to the well-known V. Opulus but is a more dense and upright grower, the anthers of the flowers are quite purple and contrast strikingly with the



JACKSON DAWSON

ray-flowers which are larger than in Opulus and from an almost symmetrical circle around the perfect flowers. At first it was considered a variety of Opulus but was afterwards recognized as a distinct species. The plants here came from seed sent from Pekin, China, to the Arnold Arboretum, by Prof. C. S. Sargent at the time of his visit there some nineteen years ago, and raised under the nurture of Jackson Dawson, whose latest portrait appears herewith.

WASHINGTON NOTES.

Mr. William Plumb, of New York, visited a number of the florists here last week. Mr. Plumb is superintendent of the Department of Horticulture of the Panama Exposition.

F. S. Good, who has been for some time with J. S. Nicholas, of New York, and who was formerly in the employ of Thomas Galvin, of Boston, Mass., has entered the employ of F. H. Kramer, 916 F Street, Northwest.

William F. Gude has returned from a trip to New England where he acted as judge at several shows held in that section last week, and jumped right into harness again with the address of welcome to the delegates to the convention of the American Seed Trade Association. Mr. Gude was accompanied on the trip north by his brother, Adolphus, who has also obtained world-wide fame as a judge.

George H. Cooke has secured temporary quarters at 1020 Connecticut avenue, Northwest, and is getting along nicely considering the adverse conditions attending such a move. The store is fitted with a small greenhouse and in all it is well equipped for handling the summer business. Mr. Cooke expects to be able to return to his old location about October 15, the time of the opening of the social season.

BODDINGTON'S QUALITY FLOWER SEEDS

SELECTED SEEDS SUCCESSFULLY SOWN SECURE SURE, SAFE AND SERVICEABLE SATISFACTION

IT **has been, is, and always will be our policy and intention** to disseminate only the very **choicest strains of flowering seeds** or any other varieties of seeds, giving special attention to the class known as **Florists' Seeds,** and intending customers need have no hesitation in buying or fear of disappointment **when they bloom. No expense** has been spared to secure the finest types as to habit of plant, form of flower, color and breeding of our **Quality Strains of Primula, Cineraria, Cyclamen, Calceolaria, etc.**

ASPARAGUS

PLUMOSUS NANUS. True greenhouse grown. 50 cts. per 100 seeds; $1.00 for 250 seeds; $3.50 per 1000 seeds.
PLUMOSUS NANUS. California grown. 50 cts. per 100 seeds; 75 cts. for 250 seeds; $2.50 per 1000 seeds.
SPRENGERI. 25 cts. for 250 seeds; 75 cts. per 1000 seeds; $3.00 for 5000 seeds.

CALCEOLARIA HYBRIDA

BODDINGTON'S PERFECTION. The herbaceous Calceolaria is an easily cultivated plant. So long as frost is excluded from the plants in Winter they are perfectly safe, and to attempt to hasten growth at any time is a failure. July is the best month for sowing the seed. The great advance made in the habit of the strains offered is remarkable, whilst in the colors there is a marked improvement. Saved by England's most famous specialists. Monster flowers of rich and varied colors, including spotted, laced, blotched and self-colored varieties. ½ pkt., 60 cts.; pkt., $1.00.

Boddington's Matchless CINERARIAS

BODDINGTON'S MATCHLESS CINERARIA. A combination of the three most famous English strains, which we can recommend to those wishing to grow the best. **Tall,** ½ trade pkt., 60 cts.; trade pkt., $1.00. **Dwarf,** ½ trade pkt., 60 cts.; trade pkt., $1.00.
CINERARIA STELLATA (Star-flowering Cineraria). Tall growing, 4 to 5 feet; excellent as a single specimen for table decoration, or for grouping with splendid effect in corridors and conservatories. ½ trade pkt., 60 cts.; trade pkt., $1.00.

CANDYTUFT (Iberis) H. A.

BODDINGTON'S GIANT HYACINTH-FLOWERED. Large, pure white, spiral spikes. The finest variety for growing under glass. Trade pkt., 35 cts.; oz., $2.00.

MIGNONETTE H. A.

BODDINGTON'S MAJESTY. The finest of all the fancy varieties of Migonette; an improvement on Allen's Defiance. Seed saved from select spikes under glass. Trade pkt., 60 cts.; ⅛ oz., $1.00; oz., $7.50.

BODDINGTON'S POT MYOSOTIS

Forget-Me-Nots are delightful subjects for flowering indoors at Christmas time, and as they are everywhere welcome, the practice of growing plants in pots is rapidly increasing. Sown in July and potted on, the strain we offer produces fine, free-growing specimen plants. Trade pkt., 50 cts.; 3 pkts. for $1.25.

SCHIZANTHUS (Butterfly Flower) H. A. 1½ ft.

Elegant, free-flowering, hardy annuals for the garden in Summer or for pot culture in the greenhouse during Winter.
GRANDIFLORUS BODDINGTONII. Boddington's Select Hybrids. The strain is superior to any of the Schizanthus in cultivation, the flowers are better shaped and the colors are more varied. In habit the plants are very bushy, and the flowers are invaluable for cutting; as a pot plant for conservatory decoration, they are unequaled. Trade pkt., 75 cts.
WISETONENSIS. The colors are varied, ranging from white with yellow center to pink with brown center. Most useful as a Winter plant, and should be given a place in every greenhouse. Trade pkt., 50 cts.

Boddington's Matchless GIANT PRIMULAS

PRIMULA SINENSIS

Boddington's Matchless Giant Primulas, Mixed. This selection includes all the finest Giant Single Primulas of the plain-leaved class. ½ trade pkt., 60 cts.; trade pkt., $1.00.
Boddington's Matchless Giant Pure White; Boddington's Matchless Giant Blush White; Boddington's Matchless Giant Orange King, a delightful novelty, almost orange; **Boddington's Matchless Giant Rose; Boddington's Matchless Giant Scarlet; Boddington's Matchless Giant Royal Blue.**
Each, ½ trade pkt., 60 cts.; trade pkt., $1.00. Collection of the above 6 varieties, ½ trade pkt., each, for $3.50.
The Duchess. The large, pure white flower, with its unique zone of bright, rosy carmine, surrounding a clear yellow eye, is simply unapproachable in its beauty. ½ trade pkt., 60 cts.; trade pkt., $1.00.
Sutton's Coral Pink. The name describes it; habit dwarf and compact; flowers thrown well above foliage. Pkt., $1.00.

PRIMULA OBCONICA GIGANTEA

Primula obconica gigantea Kermesina. Beautiful, deep crimson.
Primula obconica gigantea alba. The pure white flowers greatly enhance the beauty of the existing lilac, rose and crimson shades.
Primula obconica gigantea lilacina. Beautiful lilac.
Primula obconica gigantea rosea. Lovely rose.
Primula obconica gigantea grandiflora. Mixed varieties, pure white to deep crimson.
Each of above, ½ pkt., 30 cts.; pkt., 50 cts.
PRIMULA floribunda grandiflora (Buttercup). Small yellow flowers, borne in great profusion; fine for pots. Pkt., 50 cts. **Forbesii** (Baby Primrose). Pkt., 25 cts.
PRIMULA KEWENSIS (Giant Buttercup). This plant is a strong grower, with bright green leaves and numerous erect flower-scapes, 10 to 18 inches in height, producing flowers in whorls at intervals along their whole length. The flowers are fragrant, bright yellow in color, with a slender tube and spreading limb nearly an inch in diameter. As a Winter-flowering decorative plant it is an acquisition; very floriferous when in a small state. ½ trade pkt., 60 cts.; pkt., $1.00.
PRIMULA FIMBRIATA, GIANT QUEEN ALEXANDRA. G. P. The largest white Primula Sinensis, blooms measuring 2½ inches across. Petals very solid and erect. Robust foliage with red stems. ½ pkt., 60 cts.; trade pkt., $1.00.
PRIMULA, NEW HYBRID QUEEN OF ROSES. A lovely new hybrid of P. obconica and P. stellata, producing shapely heads of large and beautiful, bright rose-colored flowers, remaining decorative for a long time. 1 foot. Trade pkt., $1.00; ½ pkt., 60 cts.
PRIMULA MALACOIDES. H. H. P. (The Giant Baby Primrose.) The plants branch very freely. The flowers, which are ¾ inch wide, are of a pretty light lilac, and are borne in whorls on long stems. If grown in a greenhouse, can be had in bloom in four months after sowing. Trade pkt., 50 cts.; 3 pkts. for $1.25.
PRIMULA MALACOIDES ALBA. The white prototype of the foregoing variety, and a great acquisition; very chaste and beautiful as a plant or cut flower. Trade pkt., 50 cts.; 3 pkts. for $1.25.

ARTHUR T. BODDINGTON, Seedsman **342 West 14th St. New York City**

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION.

More than two hundred delegates were present at the opening of the convention of the American Seed Trade Association at the Raleigh Hotel on Tuesday and despite the summer heat great interest was taken in the discussions of the day. The address of welcome was delivered by William F. Gude, as president of the Washington Chamber of Commerce. Mr. Gude told the delegates that it is the sincere hope of the business men that the meetings of the association will be profitable from a business standpoint, and that their impressions of the city will be such that they will come back often. He called special attention to the proposed erection of a monument in memory of the late William R. Smith and told the delegates of the many delightful places around Washington to which visits should be paid before they leave the the city.

The convention was opened by C. C. Massey, of Milwaukee, Wis., president of the association. The morning's business consisted of the appointment of various committees including the obituary committee of which S. F. Leonard, Chicago, Ill.; E. L. Page, Greene, N. Y., and W. H. Greenell, Saginaw, Mich., are the members; the auditing committee composed of A. L. Don, New York City; B. W. Dulaney, Cincinnati, Ohio, and S. A. Wilson, Madison, Wis., and the banquet committee on which S. F. Willard, Cleveland, Ohio; Arthur B. Clark, Milford, Conn., and James P. Coon, and G. Edward Schultz will serve.

At the conclusion of Mr. Gude's address of welcome, Watson S. Woodruff, of Orange, N. J., spoke on the selling of seeds at wholesale. He told of the different methods used to dispose of seeds as by catalogues, traveling salesmen, surplus lists, etc. A discussion as to the advisability of sending out surplus lists followed his remarks and it developed that it was not an unmixed evil. There was no action taken in the matter it being found best to leave it entirely to the individual house for that which would be good business for one in this respect might fall short in prospect for others.

F. W. Bruggerhof, of New York, addressed the delegates on the subject of "The Central System of Selling Seeds and Its Advantages," which subject also brought forth considerable comment. He favored the selling seeds by weight instead of by measure as is the present method on account of the great variation in the different kinds of seeds and because of the fact that many new methods have been adopted for cleaning seeds. There appears to be many phases to this question and under present conditions the advocated change would prove revolutionary. The Government measures its seeds on the basis of the bushel unit, farmers consider the value of seeds on the basis of how far a bushel or a quart can be sown, and more important yet is the fact that all of the present seed catalogues are based on the bushel unit.

In the afternoon a reception was tendered to the ladies who accompanied the delegates, in the parlors of the hotel, by the ladies of the Washington contingent, and later they, together with the male members of the large party as guests of the Washington Chamber of Commerce,



LESTER L. MORSE

were taken in automobiles for a sightseeing trip around the city.

The entertainment features of the convention are in the hands of F. W. Bolgiano, G. Edward Schultz, Robert E. Mann, James P. Coon, Frank Campbell, all of Washington, D. C., and John W. May, of Alexandria, Va.

SECRETARY'S REPORT—1913-1914.

Total membership reported, 1913	176
New members added total	7
Resignations	1
Dropped from the rolls	2
Total losses	3
Leaving a net gain of	4
Total membership at present, including 2 honorary	180

TREASURER'S REPORT.

RECEIPTS.

Balance on hand as reported June, 1913	$1,282.77	
Dues received	2,465.00	
Initiation fees	150.00	
Interest	54.60	
Sale of codes and disclaimer cards	4.36	$3,956.73

DISBURSEMENTS.

Counsel's retainer	$1,500.00	
Secretary's salary	400.00	
Committee expenses	327.11	
Stenographer's services	116.45	
Printing	242.57	
Stamps and stationery	30.95	
Dues to Wholesale Seedsmen's League	25.00	
Refunds	55.00	
Office incidentals	4.38	
Badges	38.75	
Total expenditures	2,740.21	
Cash in banks	1,216.52	$3,956.73

C. E. KENDEL, Sec.-Treas.

June 18, 1914

CATALOGUES RECEIVED.

Naples, Italy. — M. Herb. General catalog of bulbs and seeds for fall sowing.

MICHELL'S
FLOWER SEEDS
SOW NOW

CALCEOLARIA

	½ Trade Pkt.	Trade Pkt.
Grandiflora, Tall Mixed	$.60	$1.00
" Dwarf	.60	1.00

CINERARIA

Grandiflora, Prize Dwarf	.60	1.00
" " Med. Tall	.60	1.00
James' Giant Strain	.60	1.00

PRIMULA CHINENSIS

Alba Magnifica	.60	1.00
Chiswick Red	.60	1.00
Duchess	.60	1.00
Holborn Blue	.60	1.00
Kermesina Splendens	.60	1.00
Rosy Morn	.60	1.00
Prize Mixture	.60	1.00

Primula Obconica Gigantea

Lilacina, Lilac	.50
Kermesina, Crimson	.50
Rosea, Pink	.50
Alba, White	.50
Hybrida, Mixed	.50

Also all other Seasonable Seeds and Supplies.

Send for Wholesale Catalogue and Price List

HENRY F. MICHELL CO.

Flower Seed Specialists

518 Market St., Philadelphia, Pa.

SEED TRADE NOTES.

The Pittman & Harrison Company, Sherman, Tex., have purchased property on Cherry street on which they will make additions to their milling and warehouse facilities, and remodel their entire building.

The president of the New York Produce Exchange has appointed Wm. Jacot, chairman, Marshall H. Duryea, Ernst Wehncke, O. W. F. Randolph and Charles Wimmer as a committee on seeds for the ensuing year.

OBITUARY.

George C. Wiggin.

George C. Wiggin of Sharon, proprietor of extensive vegetable forcing houses, died on June 18 at the Massachusetts General Hospital from injuries received in being run over by an auto truck on the Easton road on the day before. The automobile was operated by W. O. Dixon of Waltham. Both Wiggin's legs were crushed.

Charles H. Sieck.

Charles H. Sieck, proprietor of the florist business of Charles E. Smith & Co., Baltimore, Md., died at his residence, 216 Warren avenue, June 10th, after a long illness, aged 49 years. He was formerly employed by Charles E. Smith until he took over the business, continuing it under the old name. He is survived by his wife.

NEW and RARE PLANTS FROM CHINA

It is not too late to order these recent introductions as we have nearly all of the varieties pot-grown for planting now.

Catalogue with complete descriptions on request

R. & J. FARQUHAR & CO.

6 South Market Street, - - Boston, Mass.

STRAWBERRY PLANTS

POT GROWN

New and Standard Varieties. Ready for Shipment June 15th

Write for our midsummer Price List mailed free

BURNETT BROS.

SEEDSMEN

98 Chambers St., NEW YORK

PEAS, BEANS, RADISH and all Garden Seeds } Growers for the Trade

LEONARD SEED CO.

226-230 W. KINZIE STREET, CHICAGO

ONION SETS

Write for Prices

All Seeds and Bulbs sold by Thorburn are always of the very highest quality and true to name.

ASPARAGUS

Plumosus Nanus

Per 1,000	
1,000	$2.00
5,000	1.75
10,000	1.65

TUBEROSES

Dwarf Double Pearl

Extra large size

$7.50 per 1000

J. M. Thorburn & Co.

"The most reliable seeds"

53 Barclay St. NEW YORK, N. Y.

Place your order now for Ayres' Winter Flowering

SWEET PEA SEED

S. BRYSON AYRES CO.

"Renowned Sweet Pea Specialists"

SUNNYSLOPE, INDEPENDENCE, MO

New Price List of My

Winter Flowering Spencer Sweet Peas

WIEL SOON BE OUT

If you are interested in this line, send your name

ANT. C. ZVOLANEK

Lompoc, Cal.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

Established 1818

Write For Our Low Prices

LIGHT, PRATT and ELLICOTT STS. BALTIMORE, MD.

ORDERS SOLICITED

The Lily Without a Peer

MEYER'S T BRAND

Formosums GIGANTEUMS Multiflorum

CORP. OF CHAS. F. MEYER

99 Warren St., New York

New Crop Seeds

FOR FLORISTS AND MARKET GARDENERS.

SALVIA—Splendens, Bonfire.
ASTERS—All varieties.
VERBENA—SWEET PEAS.

Send list of wants.

Stamford Seed & Nursery Co., 43 Atlantic St.

STAMFORD, CONN.

"SEEDS WITH A LINEAGE"

Seeds with a generation of finest flowers and vegetables back of them—carefully selected—really tested.

Write today for Catalog.

CARTER'S TESTED SEEDS, Inc.

166 Chamber of Commerce Bldg. Boston, Mass.

JAMES VICK'S SONS

SEEDSMEN

ROCHESTER, NEW YORK

"FLORISTS' SEEDS"

Write for import prices on bulbs.

J. W. Edmundson, Mgr. M. W. Williams, Sec'y

California Seed Growers Association, Inc.

Growers For Wholesale Dealers

SAN JOSE CALIFORNIA

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES MAILED ONLY TO THOSE WHO PLANT FOR PROFIT.

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BULBS, PLANTS and SEEDS

1218 Betz Bldg., Philadelphia

Catalogue on application

VEGETABLE PLANTS

CABBAGE—Jersey & Chas. Wakefield, All Head, Early & Late Flat Dutch, and other varieties at 20c. per 100; 75c. for 500; $1.00 per 1000; 10,000 and over at 85c. per 1000.

LETTUCE—Grand Rapids, Boston Market & Big Boston, 20c. per 100; 75c. for 500; $1.00 per 1000. Cash with Order.

R. VINCENT, JR. & SONS CO.
White Marsh, Md.

NEW CROP SEEDS

FOR FLORISTS

Ask for 1914 Catalogues

Joseph Breck & Sons Corp.

Seedsmen

47-54 No. Market St., BOSTON, MASS.

GARDEN SEED

BEET, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety, also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

S. D. WOODRUFF & SONS 82 Dey St., NEW YORK and ORANGE, CONN.

JOHN BREITMEYER'S SONS
Cor. Broadway and Gratiot Aves.
DETROIT, MICH.
Artistic Designs . . .
High Grade Cut Blooms
We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1582
1415 Farnum St.,
OMAHA, NEB.

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WILLIAM J. SMYTH
Cor. Michigan Ave. and 31st St.,
CHICAGO, ILL.
(Member Florists' Telegraph Delivery Asso.)
We ship to all points in Illinois and Iowa.
Phones Aldine 880 Aldine 881 Aldine 882.

SAMUEL MURRAY
Kansas City, Mo.
913 Grand Ave.
Member of the Florists' Telegraph Delivery.
All Orders Given Prompt and Careful Attention

The Park Floral Co.
J. A. VALENTINE
Pres.
Member Florists' Telegraph Delivery.
DENVER, COLORADO

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2180
Members Florists Telegraph Delivery

"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention.
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

Of Interest to Retail Florists

Warren, R. I.—James Rodger, formerly of Barrington, has purchased the Vernon street greenhouses and will enter the retail business.

St. Louis, Mo.—The Vandevoort's Floral Department Store last week bought five acres of land in the country and upon this they will build this summer several greenhouses to grow plants for their own use.

STEAMER DEPARTURES

Allan.

Pretorian, Boston-Glasgow . . . July 1

American.

St. Paul, N. Y.-Southampton . July 3
St. Louis, N. Y.-Southampton . July 10

Atlantic Transport.

Minnewaska, N. Y.-London . . . July 4
Minnehaha, N. Y.-London . . . July 11

Cunard.

Caronia, Boston-Liverpool . . . June 30
Aquitania, N. Y.-Liverpool . . . July 1
Ivernia, N. Y.-Mediterranean . July 1

French.

Mexico, N. Y.-Havre . . . . . July 4
La Lorraine, N. Y.-Havre . . . July 8

Holland-America.

Rotterdam, N. Y.-Rotterdam . June 30
Potsdam, N. Y.-Rotterdam . . . July 7

Hamburg-American.

Amerika, Boston-Hamburg . . . June 30
Pres. Lincoln, N. Y.-Hamb'g . . July 2
Vaterland, N. Y.-Hamburg . . . July 7

Leyland.

Canadian, Boston-Liverpool . . July 4
Bohemian, Boston-Liverpool . . July 11

North German Lloyd.

K. Wilhelm II, N. Y.-Bremen . . June 30
Barbarossa, N. Y.-Bremen . . . July 2
Prinzess Irene, N. Y.-Medit'n . July 4
Kronp'z Wilh'lm, N. Y.-B'm'n . July 7

Red Star.

Kroonland, N. Y.-Antwerp . . . July 4
Vaderland, N. Y.-Antwerp . . . July 11

White Star.

Baltic, N. Y. Liverpool . . . . July 2
Oceanic, N. Y. Southampton . . July 4
Cymric, Boston-Liverpool . . . July 7
Celtic, N. Y. Liverpool . . . . July 9

Austin, Tex.—Austin is now enjoying summer weather. The recent continued rains have given a wealth of beauty in gladioli and lilies never experienced since this class of planting became general. Indoor stuff is getting too much heat and field plants have not quite adjusted themselves to the change from extreme wet to normal conditions. Sweet peas have failed completely and rust has affected them very badly. As these have been the florists' hope they hardly know what to do, as carnations are played out and the Eastern stuff comes in asleep. Roses are improving.

PHILADELPHIA NOTES.

Miss E. A. O'Neil who conducts a flower shop at 1618 Susquehanna Ave., was pronounced by the doctors out of danger, on the 22nd inst. She had undergone a serious operation at the Polyclinic Hospital.

Visitors:—C. B. Coe, D. M. Ferry & Co., Detroit, Mich.; Walter Mott, Beacon, N. Y.; Antoine Leuthy, Roslindale, Mass.

ALEX. McCONNELL
611 FIFTH AVENUE
NEW YORK CITY
Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.
Cost of Cabling Foreign Deliveries Must be prepaid
Reference or cash must accompany all orders from unknown correspondents.
Cable Address, ALEXCONNELL.

G. E. M. STUMPP
761 Fifth Ave.
NEW YORK CITY
Member Florists' Telegraph Delivery Asso.

DAVID CLARKE'S SONS
Deliver orders from any part of the country to
New York City
Or OUT-GOING STEAMERS
Write or Telegraph
2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

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FLORIST
N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor

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AND VICINITY
A. WARENDORFF
Artistic Work. Reasonable Prices. Prompt Delivery of Steamer Orders.
1193 Broadway, My Only Store

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

THE ROSERY
23 STEUBEN ST.
ALBANY, N. Y.
FLOWER DELIVERIES FOR ALBANY AND VICINITY
Members Florists' Telegraph Delivery

FLOWERS delivered promptly in Buffalo, Niagara Falls, East Aurora, Lockport, Tonawanda, Lancaster and other Western New York cities and towns.
Palmer's
304 Main Street
BUFFALO, N. Y.
Members Florists' Telegraph Delivery Association

NEW ENGLAND
FLOWER DELIVERIES
Send flower orders for delivery in Boston and all New England points to
THOS. F. GALVIN
126 Tremont St., Boston



WASHINGTON, D. C.
GUDE'S
Member Florists' Telegraph Delivery.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to any address in Washington.
Stock and Work First Class

New York. Washington, D. C.
J. H. SMALL & SONS
FLORISTS
NEW YORK, 1153 Broadway, WASHINGTON, D. C. Cor. 15th & H. Sts.
AND WALDORF-ASTORIA.

ALBANY, N. Y.
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER
11 NORTH PEARL STREET, ALBANY, N. Y.

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NOTICE INITIALS. We have one store only

The Far-Famed Flowers of
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Delivered on mail or telegraph order for any occasion, in any part of the Dominion.
JOHN H. DUNLOP
96 Yonge St., - - TORONTO, ONT.

MONTREAL
HALL & ROBINSON
825 ST. CATHERINE ST., W.
All Transfer Orders Filled Under Personal Supervision

P. McKENNA & SON
(Established 1851.)
770 St. Catherine St., West
MONTREAL, CANADA
We give Special Attention to Telegraphic Orders

Flowers by Telegraph

Leading Retail Florists Listed by Towns for Ready Reference. Orders transferred by telegram or otherwise to any of the firms whose address is here given will be promptly and properly filled and delivered.

Albany, N. Y.—H. G. Eyres, 11 N. Pearl St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 126 Tremont St.
Boston—Penn, the Florist, 37-43 Bromfield St.
Boston—Zinn, the Florist, 1 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago, Ill.—Schiller the Florist, George Asmus, Mgr
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, Ohio—Adam Graham & Sons, 5523 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Kansas City, Mo.—Samuel Murray, 913 Grand Ave.
Montreal, Can.—Hall & Robinson, 825 St. Catherine St., W.
Montreal, Can.—P. McKenna & Sons, 770 St. Catherine St., West.
New London, Conn.—Reuter's.
New Haven, Conn.—J. N. Champion, 1026 Chapel St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
New York—A. Warendorff, 1193 Broadway.
New York—J. H. Small & Sons, 1153 Broadway and Waldorf-Astoria.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
St. Paul, Minn.—L. L. May & Co.
Stamford, Conn.—"Quality Shop;" Stamford Seed & Nursery Co.
Tarrytown-on-Hudson, N. Y.—F. R. Pierson Co.
Toronto, Can.—J. H. Dunlop, 96 Yonge St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—J. H. Small & Sons, cor. 15th and H Sts.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

NEW FLOWER STORES.

Valley Falls, R. I.—J. J. Kelley.

Plymouth, Wis. — Hub City Greenhouses.

Oklahoma City, Okla. — Furrow & Co., 120 W. Main street.

Minneapolis, Minn. — L. S. Donaldson Company, W. D. Desmond, manager.

Chicago, Ill.—Geo. P. Chiagouris, 64 W. Madison St.; Sam Graff, 7 W. Monroe St.

New York, N. Y.—C. C. Trepel, Broadway and 107th street, Olympia Theatre building.

ORDERS FOR
NEW YORK
WIRE OR PHONE TO
MAX SCHLING
22 West 59th Street, adjoining Plaza Hotel
Best Florists in the States as References
EUROPEAN ORDERS EXECUTED
Members of the Florists Telegraph Delivery.

BOSTON, MASS.
Penn the Florist
"Penn, The Telegraph Florist"
Member of Florists' Telegraph Delivery
87-43 BROMFIELD STREET

Transfer your orders for flower or plant deliveries to
ZINN The Florist
1 Park St., Boston

YALE AND ALL CONNECTING POINTS
Flower and Plant Deliveries.
J. N. Champion & Co.
1026 Chapel St., New Haven, Conn.

THE J. M. GASSER COMPANY,
CLEVELAND
Euclid Avenue

M. RICE CO.
The Leading Florists' Supply and Ribbon House
1220 Race Street, PHILADELPHIA, PA.

St. Paul, Minn.
L. L. MAY & CO.
Catalogue Free on Application
Order Your Flowers for delivery in this section from the
LEADING FLORISTS OF THE NORTHWEST

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy stock, and prompt deliveries in BUFFALO, LOCKPORT, NIAGARA FALLS and WESTERN NEW YORK.
Members of Florists' Telegraph Delivery.

RANDALL'S FLOWER SHOP
HARRY I. RANDALL, Proprietor.
Phone: Park 94
3 PLEASANT ST., WORCESTER, MASS.
Member Florists Telegraph Delivery Association

During Recess

COMMODORE WESTCOTT'S ANNUAL OPENING.

The picturesque bungalow of the Waretown Rod and Gun Club, on Barnegat Bay, N. J.—of which John Westcott is the founder and ruling spirit—was resplendent with flags and bunting on the morning of June 19—when a distinguished company of guests from all parts of the country met at the Commodore's invitation, to celebrate the 14th annual opening of the club house. The weather was ideal during the three days' celebration, the Commodore's hospitality was on the usual generous scale; the sport on land and water was equal to all demands; and every one had the time of his life—renewing old acquaintances and cementing new.

An idea of the personnel of the gathering may be had when it is mentioned that no less than five ex-presidents of the S. A. F. were present, namely: Messrs. Dean, Gude, Burton, Vaughan, and Craig. It is seldom so many distinguished men meet at a private table. All of them show a tinge of gray, but are as hale and hearty as youngsters and showed their virility, by out-walking, out-sailing, out-running, out-quoiting and out-talking many of those present, not half as frosty-powed.

Many letters and telegrams were read from old friends of the Commodore, who from distance or other cause were unable to be present. Among these were three from ex-presidents of the S. A. F., namely: Edwin Lonsdale, California; William J. Stewart, Massachusetts and Adam Graham, Ohio. An affectionate letter was also read from H. B. Beatty, ex-treas. of the S. A. F., who had to leave suddenly for Richmond on account of the illness of his daughter.

A feature of the occasion was the presentation of 48 new records for the Victrola, including all the latest masterpieces of the world's famous singers and musicians. Another feature was the initiation of a distinguished Western seedsman by Bo's'n Trainer, into the true meaning of the word "luff." It would appear that a prairie schooner can do lots of things but "luff" seems to be beyond it. "Coming-up," and "going-over," and "riding-easy" are all possible, but "luffing" required a lot of elucidation. But it's all right now, and the Alamo will sound with "luff, you landlubbers, luff". There's always something to learn. Never say "'Vast heaving when it comes to acquiring more knowledge. And so once more the world has said "All Hail" to the "Waretown Commodore." G. C. W.

WARETOWN REVISITED.

The Westcott lights have blazed again
As kindly as of yore;
The Beacon Light of Barnegat
Shines far to the Waretown shore.

"Stars of the Summer Night" draw
Nearer, clearer than before;
Sun, sky and breeze and dancing wave
Each signals, thine, once more.

Long may the kindly master live
To greet his grateful guests;
West winds blow soft to sail thee, John,
To "Islands of the Blest."

June 19, 1914. J. C. VAUGHAN.

NEW YORK FLORISTS' CLUB OUTING.

The annual outing of the New York Florists' Club at Glen Island on July 1st promises to be a gala event and the committee is sparing no effort to make this occasion one long to be remembered by club members, their families and friends. Over $400.00 has been donated for prizes for the various events and every member should make a special effort to get aboard and have a grand time. Tickets can be obtained from members of the committee of which W. E. Marshall is chairman.

ANNUAL PICNIC FLORISTS' CLUB OF PHILADELPHIA.

Jupiter Pluvius frowned a little in the forenoon of the 22nd inst. when the annual outing of the Florists' Club of Philadelphia was scheduled to take place. But the committees' defy of "rain or shine" seemed to have had some effect, for he drew up his old watering can and retired behind by the afternoon, and the sun shone on the gay assemblage that gathered at Schuetzen Park to celebrate the twenty-eighth annual festival of the club.

There was a fine turn out of members and everyone had a good time. The games were well contested; the dinner was fine and everything went merry as a marriage bell.

Scores of old timers, who never come to a club meeting were there. They like a picnic in the open air—where they can meet their cronies informally under a tree and swap reminiscences, and once a year just about suits them.

There were no fines for talking politics, religion, business, free-will, foreordination, the nebular hypothesis, pure scandal, or any other old thing that interested—thanks to the timely hint by HORTICULTURE—so we take our hat off to our noble selves. (Committee please note.)

The committee in charge did their work nobly and they deserve the highest commendation, one and all. They worked like beavers to make everybody happy and by so doing were happy themselves. That is their true reward for good work well done. Handclaps are unnecessary. Smiling faces all around them—far more eloquent.

GEO. C. WATSON.

Report of Sports Committee.

Base Ball Game—Seedsmen and Retailers, 8; Growers and Commission Men, 7.

Men's Wheel Barrow Race—1st, Charles Kohler; 2nd, M. Wohlert; 3rd, R. Kienle.

Ladies' Wheel Barrow Race—1st, Mrs. E. Aschman; 2nd, Mrs. A. Heubner; 3rd, Mrs. A. Campbell.

Sack Race—1st, Duncan Macaw; 2nd, A. Culbertson; 3rd, E. Goehring.

Fat Men's Race—1st, R. Shock; 2nd, E. Dornheim; 3rd, J. Heacock.

Ladies' Race—1st, E. Heacock; 2nd, R. Dieroff; 3rd, A. Kleinhans.

Girls' Race, 10 to 15 Years—1st, G. Wanger; 2nd, E. Robertson; 3rd, R. Gerlock.

Boys' Race, 10 to 15 Years—1st, J. Strohlein; 2nd, A. Strohlein; 3rd, M. Santman.

Tug of War—Seedsmen and Retailers vs. Growers and Commission Men—Won by Commission Men.

Growers and Commission Men: Mr. Aschman, R. Craig, Mr. Shobler, Duncan Macaw, E. Dornheim, J. Heacock.

Seedsmen and Retailers Team: E. Hofferman, J. Dectricth, B. Miller, R. Shoch, F. Stokes, F. Cowperthwaite.

FRED COWPERTHWAITE,
Chairman of Sports Committee.

A CORDIAL INVITATION

Is extended to the trade to visit and inspect our new establishment, Fifth Avenue at 46th Street, New York City.

TRANSFER ORDERS

by Telegraph or otherwise for delivery of Flowers to Steamers, Theatres, or Residences in New York and vicinity executed in best manner.

Thos. F. Galvin, Inc.

Established 1847
Fifth Ave., at 46th Street, NEW YORK
THREE STORES IN BOSTON

CHICAGO

And Neighboring Towns

Are Thoroughly Covered by

SCHILLER, THE FLORIST

(Member Florists Telegraph Delivery).

Flowergram or Mail Orders from florists anywhere carefully filled and delivered under the supervision of

GEORGE ASMUS, Mgr.

2221-2223 W. Madison St., CHICAGO.
'Phone West 822

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

STAMFORD, CONN.

"Quality Shop"

Will take care of all your orders for designs or cut flowers.

Stamford Seed & Nursery Co., 43 Atlantic St.

F. R. PIERSON CO.

FLORISTS AND PLANTSMEN

TARRYTOWN ON HUDSON, - N. Y.

Member of Florists' Telegraph Delivery

FITTING ON THE CAP.

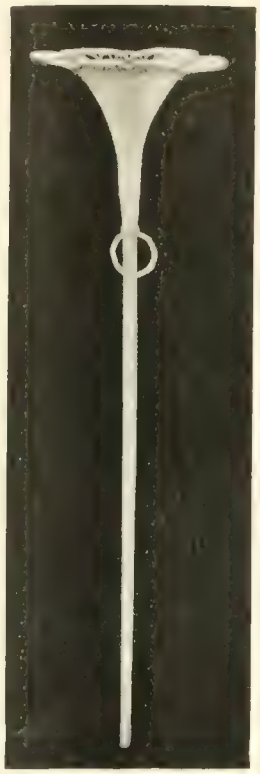
Not so much in self-defense, as in defense of my fellow committee-men, I wish to say that I am entirely responsible for the paragraph which appeared at the bottom of the Florists' Club Outing Circular, "Anyone talking business on the grounds will be fined $5.00 by the committee." It was not my intention to be humorous. I only tried it once, and I was set upon so severely, that I will not very soon venture to try it again. I claim no accomplishments in that direction, not any more so, than it is possible for a Scotchman to appreciate.

I have had the pleasure of attending several of the Florists' Club Outings, and if there was anything being done

WEDDING ACCESSORIES



No. 3



No. 4



No. 5

These Cuts Show Three of Our Latest Novelties Which We Term

BRIDESMAIDS' RESTING BASKETS

See Nos. 3, 4 and 5 in our Catalogue. And there are others, See Catalogue pages as follows:

Page 29, Kneeling Stool; Page 98, Shoulder Bridal Baskets No. 330; Page 97, Aisle Post No. 405; Page 95, Shepherd's Crook No 307, Directoire Staff No. 308, and Empire Staff No. 309.

Get Busy With These
Now is the Time

H. BAYERSDORFER & CO.

The Florists' Supply House of America

1129 Arch Street, - - Philadelphia, Pa.

in excess, it was certainly not the pushing of business. Mr. Watson refers to someone in the trade, in his article, as a Curbstone Peddler, but I have never met that man at any picnic; in fact, that man would be too mean to allow himself to be separated from the price of a ticket. What is really meant by the above quotation is, that for half a day, we should lay aside all thoughts of business, and in the fullest sense of the word enter into the spirit of the fun. Why make comparison between a half day's outing and the nurserymen's convention? At a convention, to make it a success, it is necessary to mix business and relaxation. A three or four-day session of all business, or all relaxation, would be monotonous. But why, Mr. Watson, make such a far-fetched comparison! Surely we had expected your fertile brain to bring forth something more convincing!

Your P. S. pleases me more than anything else. That shows that at least the committee seems to understand the spirit of my unwisely chosen quotation. I quite agree with Mr. Watson, that his interpretation of my quotation is silly, and shows the lack of understanding of human nature. Mr. Watson must have been in such a dense fog, that a collision was unavoidable. No doubt his intentions are good, and between the lines we can read, and readily see Mr. Watson's lofty ideals, which are generous and admirable. Diogenes took his lantern and went in search of a man. It seems that Mr. Watson took his lantern, in search of something to write about. If Mr. Watson had put in print the thought that he wishes to convey in his article, before reading the Florists' Club circular, the spirit and sentiment would have been beautiful, but he spoils the article, when we consider what aroused his faculties. His excuse for writing does not appeal to me!

ARTHUR A. NUSSEN.

(Note.—Mr. Watson does not refer to any one in his article as a curbstone peddler. He distinctly says that he is thankful there are few in the club who talk business like a curbstone peddler. In regard to the Scot being non-humorous, Dean Ramsay says they are the only people on earth with a real sense of humor.

KING ARTHUR TO FLORA.

(Dedicated to the Florists Club of Philadelphia, with apologies to James Graham, Earl of Montrose, 1650.)

And in the empire of three [illegible]
Where I should solely be,
If others do pretend a part,
Or dare to vie with me,
Or, if committee's thou elect
And go on such a score,
I'll laugh and sing at thy neglect
And never love thee more!

But if thou wilt prove faithful then,
And constant of thy word,
I'll make thee glorious by my pen
And famous by my sword;
I'll serve thee in such noble ways,
Was never heard before;
I'll crown and deck thee all with bays,
And love thee more and more.

KOMADA BROS.

Manufacturers of all Kinds of

WIRE DESIGNS and FLORISTS SUPPLIES

1008 Vine St., PHILADELPHIA, PA.

Florist's Refrigerators

Display Cases, Storage Rooms, Store Fixtures. Ask for Catalog X2.

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BEAUTIES

$1.00 to $3.00 per dozen

CATTLEYAS, doz. $6.00.
VALLEY, 100, $3.00 to $4.00.
DAGGER FERNS, 1000, $1.50.

BUSINESS HOURS: 7 A.M. to 6 P.M.

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Boston Florist Letter Co.

66 PEARL ST. BOSTON
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Block Letters, $2.00 per 100.
Script Letters, $3.00 per 100.

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POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around

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If interested, send us your name and address for our weekly price list.

WELCH BROS. CO.

AMERICAN BEAUTY, KILLARNEY, RICHMOND, MARYLAND AND ALL THE SUPERIOR ROSES, LILY OF THE VALLEY, CARNATIONS, ORCHIDS

BEST PRODUCED

226 Devonshire Street, Boston, Mass.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

Roses	CINCINNATI June 22	CHICAGO June 22	BUFFALO June 22	PITTSBURG June 22
Am. Beauty, Special	..... to 25.00	20.00 to 30.00	25.00 to 30.00	20.00 to 25.00
" " Fancy and Extra	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 18.00
" " No. 1	8.00 to 12.00	8.00 to 12.00	8.00 to 15.00	6.00 to 12.00
Killarney, Richmond, Extra	4.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" " Ordinary	2.00 to 4.00	2.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Hillingdon, Ward, Sunburst, Extra	4.00 to 6.00	6.00 to 10.00	6.00 to 8.00	6.00 to 8.00
" " " Ordinary	2.00 to 4.00	4.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Maryland, Taft, Extra	4.00 to 6.00	6.00 to 10.00	6.00 to 8.00	4.00 to 6.00
" " Ordinary	2.00 to 4.00	4.00 to 5.00	3.00 to 5.00	2.00 to 3.00
Russell, Shawyer	..... to	..... to	..... to	..... to .....
Carnations, Fancy	2.00 to 3.00	2.00 to 2.50	1.50 to 2.00	..... to 2.00
" Ordinary	... to 1.50	..... to 1.00	1.00 to 1.50	..... to 1.00
Cattleyas	..... to 50.00	35.00 to 50.00	40.00 to 50.00	..... to 60.00
Lilies, Longiflorum	8.00 to 12.50	8.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	..... to 4.00	2.00 to 4.00
Snapdragon	2.00 to 4.00	3.00 to 6.00	4.00 to 7.00	..... to .....
Gladioli	3.00 to 6.00	4.00 to 6.00	..... to	4.00 to 6.00
Corn Flower	..... to	.40 to .75	..... to	..... to .....
Mignonette	..... to	..... to	2.00 to 4.00	..... to ....
Daises, white and yellow	..... to	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Sweet Peas	.35 to .50	.50 to 1.00	.50 to 1.00	..... to .50
Gardenias	..... to	..... to	..... to	..... to .....
Adiantum	..... to 1.00	..... to 1.00	.50 to 1.25	..... to 1.25
Smilax	..... to 15.00	15.00 to 18.00	..... to 15.00	..... to 20.00
Asparagus Plumosus, Strings (100)	..... to 50.00	40.00 to 50.00	40.00 to 60.00	40.00 to 50.00
" " & Spren. (100 bchs.)	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00	40.00 to 50.00

BUY **BOSTON FLOWERS**

N. F. McCARTHY & CO.,
112 Arch St., 31 Otis St.

BOSTON'S BEST HOUSE

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Wholesale Florists

383-387 ELLICOTT ST. - - BUFFALO, N. Y.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000....$1.75. 50,000....$7.50. Sample free

For sale by dealers.

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Please mention Horticulture when writing

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES and all Seasonable Varieties of Cut Flowers

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Simple methods of correct accounting especially adapted for florists' use.

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MANUFACTURERS

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Consignments Solicited

Hardy Fancy Fern Our Specialty

38-40 BROADWAY, DETROIT, MICH

Flower Market Reports

BOSTON Prevailing conditions in the market this week are fairly good, the buoyancy of prices being held by the usual June weddings. Roses are somewhat scarce, white being exceptionally so. Sweet peas are to be had in abundance and while carnations are plentiful the quality is poor. Lily of the valley is selling well and the supply equals the demand.

BUFFALO Trade is more on the upward course and business is more on a satisfactory basis, the receipts have shortened up considerable, but there is still a large quantity of carnations, in which a part are of inferior grade. The rose supply has shortened and good roses, especially white, are scarce. A good supply of lilies and peonies, the latter have nearly come to their end. Weddings are quite noticeable, the demand has been good on lily of the valley and bridal flowers. The coming week will see a good many weddings and with school commencements, a busy week is looked for.

CHICAGO At some seasons of the year, trade this week would be counted as dull, but in comparison with the weeks just passed, it is considered fairly good. Local demand for wedding flowers keeps the market cleaned up of much stock that would hardly stand shipping, as well as calling for a good many first class flowers. Shipping trade is again good as is evidenced by the visits of the messenger boys to the wholesale houses. For two weeks Poehlmann Bros. have been cutting Mrs. Russell roses from stock made from cuttings taken since the holidays. The roses are on heavy stems, three feet long and heavily foliaged. The flower is so full and fragrant and of so pleasing a shade of deep pink, that John Poehlmann says he is sure his customers will be delighted with it. This is Mrs. Russell's first appearance here, locally grown. First class roses are scarce and good carnations are few. Peonies are selling very well and lilies are seen every where, moving usually at a fair price. The market has plenty of marguerites. Gladioli sales will average up well and lily of the valley is quite in demand for the numerous weddings.

CINCINNATI The usual early summer conditions prevail in the market. There is a fair call and just about enough to take care of this demand. Few of the offerings can boast of any real quality, although most all of them are pretty fair. Rose offerings continue to be rather limited and as a result, everything at all fair cleans up very readily. Cuts of the strictly summer roses are still rather small and are not nearly able to take care of all calls for them. Carnations too are limited as to quality and owing to the extremely hot weather, are lacking in quality. Lilies are cleaning up each day. The first of this week they were rather short, but the chances are that this scarcity will hardly last more than a few days and by the end of this week they will again be in a good supply. Gladioli are more plentiful than before and judging from reports the receipts will increase very greatly in the next fortnight. Sweet peas are in a heavy supply, they have a fair market. Other offerings include lily of the valley, orchids, peonies, and water lilies.

NEW YORK Business is in a much more favorable condition. Stock of all kinds has shortened up and prices have advanced all along the line. Roses, especially white, are in short supply. Lily of the valley are selling well, also carnations and lilies. A little better demand for orchids. All things considered, the month of June will be a very satisfactory one as far as prices are concerned.

PHILADELPHIA A recession of stocks is the chief feature of the flower market here the past week. The advancing season of course precludes any lively demand, but prices for the decreased supply are on a more healthy basis. The cool weather has improved quality very much and keeping and shipping conditions are much more satisfactory. Lily of the valley is scarce, the calculations of the regular growers having been upset by the warm weather in May and early June. Rose situation is unchanged except a slight improvement in quality and a smaller cut. Carnations are plentiful, but the quality is not nearly as good except in certain scattered spots. Still some peonies around, mostly from the cold storage. They are fine keepers and give very good satisfaction. Lilium candidum is one of the newcomers and is meeting with a fairly good demand. The lily situation is a little better, fewer and more normal as to price.

ST. LOUIS There's a little difference in the wholesale flower market this week from the week previous. Stock became scarce and the trade is quite busy with seasonable work. It's a well-known fact that at this time of the year we depend a great deal on

(Continued on page 942.)



GLADIOLI

Splendid long stemmed well flowered spikes, the better varieties.

$5.00 and $6.00 per 100

EVERYTHING IN RIBBONS. We carry one of the largest and most varied stocks of Ribbons pertaining to the florist business of any house in the country. If you have not received one of our new catalogues advise us and we will mail you one immediately

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Washington, 1216 H St., N. W.
Baltimore, Franklin and St. Paul Sts.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 25			ST. LOUIS June 22			PHILA. June 22		
Roses									
Am. Beauty, Special	15.00	to	20.00	20.00	to	25.00	20.00	to	25.00
" " Fancy and Extra	8.00	to	15.00	15.00	to	18.00	10.00	to	15.00
" " No. 1	2.00	to	6.00	5.00	to	10.00	3.00	to	8.00
Killarney, Richmond, Extra	3.00	to	5.00	4.00	to	6.00	5.00	to	8.00
" " Ordinary	1.00	to	2.00	2.00	to	3.00	1.00	to	4.00
Hillingdon, Ward, Sunburst, Extra	5.00	to	8.00	5.00	to	6.00	5.00	to	8.00
" " " Ordinary	2.00	to	3.00	3.00	to	4.00	2.00	to	4.00
Maryland, Taft, Extra	5.00	to	8.00	4.00	to	6.00	5.00	to	8.00
" " Ordinary	2.00	to	3.00	2.00	to	3.00	1.00	to	4.00
Russell, Shawyer	2.00	to	15.00	....	to	.....	2.00	to	10.00
Carnations, Fancy	1.00	to	2.00	1.50	to	2.00	2.00	to	3.00
" Ordinary	.50	to	1.00	.50	to	1.00	1.00	to	1.50
Cattleyas	25.00	to	30.00	40.00	to	50.00	40.00	to	50.00
Lilies, Longiflorum	2.00	to	4.00	8.00	to	10.00	6.00	to	8.00
Lily of the Valley	2.00	to	4.00	3.00	to	4.00	2.00	to	4.00
Snapdragon	2.00	to	4.00	2.00	to	4.00	1.00	to	3.00
Gladioli	.....	to	.....	5.00	to	8.00	3.00	to	8.00
Corn Flower	.....	to	....	.25	to	.50	.20	to	.35
Mignonette	1.00	to	3.00	4.00	to	5.00	.....	to	.....
Daisies, white and yellow	1.00	to	1.50	.25	to	1.00	.40	to	1.00
Sweet Peas	.10	to	.50	.20	to	.40	.20	to	.75
Gardenias	12.00	to	20.00	.....	to	....	4.00	to	15.00
Adiantum	75	to	1.00	1.00	to	1.25	.....	to	1.00
Smilax	12.00	to	15.00	10.00	to	12.50	15.00	to	20.00
Asparagus Plumosus, Strings (100)	35.00	to	50.00	35.00	to	50.00	35.00	to	50.00
" " & Spren. (100 Bchs.)	10.00	to	35.00	15.00	to	25.00	25.00	to	50.00

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Wholesale Commission Florist,
Choice Cut Flowers,
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Moore, Hentz & Nash
Wholesale Commission Florists
55 and 57 West 26th Street
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New York

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Call and inspect the Best Establishment in the Wholesale Flower District.

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A First Class Market for all CUT FLOWERS
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SAVE TIME AND MONEY BY SENDING YOUR ORDER TO US
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ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
JAMES McMANUS, Tel. 759 Mad. Sq. 105 W. 28th St., New York

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending June 20 1914	First Half of Week beginning June 22 1914
American Beauty, Special	15.00 to 25.00	20.00 to 30.00
" " Fancy and Extra	8.00 to 12.00	10.00 to 15.00
" " No. 1	2.00 to 6.00	2.00 to 10.00
Killarney, Richmond, Extra	3.00 to 5.00	3.00 to 4.00
" Ordinary	.50 to 2.00	.50 to 2.00
Hillingdon, Ward, Sunburs, Extra	3.00 to 5.00	2.00 to 4.00
" " Ordinary	.50 to 3.00	.50 to 1.00
Maryland, Taft, Extra	4.00 to 5.00	3.00 to 4.00
" Ordinary	.50 to 3.00	.50 to 1.00
Russell, Shawyer	..... to	..... to .....
Carnations, Fancy Grade	2.00 to 3.00	1.50 to 2.00
" Ordinary	.50 to 1.50	.50 to 1.00

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CHARLES MILLANG
Wholesale Florist
55 and 57 W. 26th Street, - - NEW YORK
Telephone 7062 Madison

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WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 / 1665 } Madison Square CONSIGNMENTS SOLICITED

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ORGANIZED FOR THE BENEFIT OF THE CANADIAN TRADE.
CUT FLOWERS AND FLORISTS' SUPPLIES OF EVERY DESCRIPTION.
Home-grown Stock a Specialty. STRICTLY WHOLESALE; NOTHING SOLD AT RETAIL.
Ample reference furnished as to standing and financial ability of the company.
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WHOLESALE FLORISTS
A. L. Young Co.
53 WEST 28th ST. NEW YORK
Consignments Solicited

Established 1887. Still Going Strong.
J. K. ALLEN
OLDEST IN YEARS BUT UP-TO-DATE IN SERVICE
106 WEST 28TH ST., NEW YORK.
Opens 6 A. M. daily.
Telephone, 167 and 4468 Mad. Sq.

Flower Market Reports

(Continued from page 941)

outdoor stock, but the long-continued dry weather has played havoc with stock. Prices that were low advanced some owing to the scarcity and demand—the retailers had a lot of work for school commencements and late weddings, also a good lot of funeral work found them short of stock. Roses are poor, so are carnations. Lilies and lily of the valley are fine, also gladioli. Roses are short stemmed and flowers poor.

WASHINGTON Stock has been comparatively scarce due to the rapid changes in the weather. There has been quite a drop in the temperature. Roses and carnations are very small and poor in quality with little demand and prices higher than the previous week. The price on gladioli has dropped quite a little. The graduation decorations and wedding bouquets have called for a considerable amount of lily of the valley and this flower sold readily. The heavy rains which attended the coming of the cooler weather hit the outdoor flowers hard and a much smaller quantity of sweet-peas was brought in from the outlying farms. This condition is desirable from the storeman's view and especially as there was a sufficient quantity of fine Spencer-type to be had. Northern lilies which have been on the market for some little time now are very good. No one seems to want snapdragon no matter at what price it may be offered.

CHICAGO NOTES.

Philip J. Foley, president of the Foley Greenhouse Manufacturing Co., has just returned from a business trip covering the territory between Chicago and Pittsburgh. Mr. Foley says he found business fairly good with the florists and landed some good greenhouse orders.

D. Scott Geddis, formerly of Chicago and now manager of the floral department of the Scruggs-Vandervoort-Barney Co., of St. Louis, Mo., while in this city last week, stated that his firm were contemplating building a range of greenhouses, to supply their increasing trade in cut flowers.

Bedding season is now about over and the length of the season has been limited. On account of the late Easter, bedding plants had to be held back and just at the time that sales were the heaviest, the wave of mid-summer heat, practically closed the trade. Department stores are still offering some plant stock, but florists in general are closing up their books for the season.

California redwood is now being used extensively by Chicago dealers in greenhouse materials. P. J. Foley is filling a large per cent of his orders now with this wood, where formerly only cypress was used. He states that it is clearer, of better quality, and costs less. The redwood in Fritz Bahr's new 42 ft. wide houses, at Highland Park, Ill. was furnished by Foley.

Poehlmann Bros'. plant department bears evidence of the growth of the plant business in Chicago. Their plant range has now an addition of 25,000 sq. ft., and every available inch filled. The lath house built a year ago is more than the name indicates. It is 27 by 150 ft. and is of 1 by 2 inch strips, with sides and ends enclosed as well as overhead. The house is built with heavy posts and has additional support of iron pipes set in concrete. All that remains of 3,000 large hanging baskets of Bostons are housed there and the benches are filled with Boston ferns in 5, 6 and 7 inch pots, now so greatly in demand.

Personal.

Wm. Kalina, of Norwood Park had his greenhouse badly damaged in the storm Sunday night.

Among the Chicago visitors this week was Aug. Mirring of East St. Louis, who has sold his land to the school board and is planning a new range on another site.

Mrs. Williams, proprietor of The Alpha, corner of Randolph St., and Wabash Ave., and A. Arends were married June 13, at the La Salle Hotel, and left for a trip through the West.

George Gobel and Miss Ella Schaefer were married June 23, at the home of the bride, and left at once for a honeymoon in Michigan. Upon their return they will live at 2219 Washington Ave.

Pauline Anderson, of the Poehlmann Bros'. Morton Grove, office, is attending commencement exercises at Kenosha, Wis. Her brother, who is in the city office will spend the summer in Colorado.

George Economopolus, proprietor of The Alpha, corner of Adams St., and Wabash Ave., stole a march on his friends and slipped away to West Baden, Ind., where he was married on June 16, to Miss Snyder. The wedding may be considered as the after effect of his recent attack of appendecitis, for cupid was busy at the hospital where Miss Snyder was nurse in charge.

NEW YORK NOTES.

John Donaldson and family removed on Tuesday last from Elmhurst, L. I., to their new home at Patchogue, L. I. Alex Donaldson, who has been associated with his father at Elmhurst has taken charge of the greenhouses and will operate them for another year.

Secretary John Young, of the Society of American Florists, has been in Boston the past week, attending a conference of the local committees at which Chas. E. Critchell, the S. A. F. chairman of sports was present. Mr. Young is delighted with the progress made with the convention, which now is so well advanced, and intending exhibitors should not delay in communicating with Mr. Jas. B. Shea at once if they intend to take space in this garden.

Chairman Frank H. Traendly of the Transportation Committee is prepared to made reservations for those who intend to go with the New York delegation and as a very large party is assured, applications for staterooms, etc., on the boat should be made at once. The club's annual outing which takes place July 1, will from all accounts be a record breaker as far as attendance is concerned. Chairman Wm. E. Marshall and his committee have carefully arranged all the details to prevent any delay or slip-up on the day the affair comes off.

ALL ABOARD
FOR
Glen Island, July 1, 1914
ON THE
14th ANNUAL OUTING AND GAMES OF THE NEW YORK FLORISTS' CLUB
$400.00 Donated for Prizes

Get your tickets early from A. N. Henshaw, 51 West 28th St., R. J. Irwin, 71 West 23rd St., and W. E. Marshall (chairman) 166 West 23rd St., N. Y, Prices of tickets including everything, **Gents $3.50, Ladies $2.50.** Juveniles between ages of 12 and 16 years **$2.00, Children under 12, $1.00.**

COME AND HAVE A GRAND TIME
THE HANDSOME STEAMER "URSULA" LEAVES EAST 24th ST., 9.45 A. M.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 20 1914	First Half of Week beginning June 22 1914
Cattleyas	15.00 to 35.00	15.00 to 35.00
Lilies, Longiflorum	..... to 2.00	..... to 2.00
Lily of the Valley	1.00 to 3.00	1.25 to 2.50
Snapdragon	2.00 to 3.00	2.00 to 3.00
Gladioli	..... to	2.00 to 6.00
Corn Flower	..... to	.50 to 1.00
Mignonette	.50 to 2.00	.50 to 2.00
Daises, white and yellow	.75 to 1.50	.75 to 1.50
Sweet Peas (per 100 bunches)	1.00 to 6.00	1.00 to 6.00
Gardenias	10.00 to 25.00	10.00 to 25.00
Adiantum	.50 to .75	.35 to .75
Smilax	10.00 to 16.00	10.00 to 16.00
Asparagus Plumosus, strings (per 100)	35.00 to 50.00	25.00 to 35.00
" " **& Spren** (100 bunches)	15.00 to 35.00	20.00 to 30.00

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. J. Dysart, 40 State St., Boston.
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AMPELOPSIS

Ampelopsis Veitchii—Largest stock of 2-year transplanted in the United States. All sizes up to strong 3-ft. plant. Send for prices before placing your order elsewhere. CHAS. BLACK, Hightstown, N. J.

APHINE

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ARAUCARIAS

Godfrey Aschmann, Philadelphia, Pa.
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ASTERS

ASTERS—Strong frame plants, all the best varieties, separate, $2.50 1000; potted plants, 2c. J. A. KEENEY, Monongahela, Pa.

AZALEAS

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K. J. Kuyk, Ghent, Belgium.
Diamond Collection Azaleas.

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BEGONIAS Lorraine, Cincinnati and Florence Davenport. 2¼ in. pots. Delivery from May 15th. JULIUS ROEHRS CO., Rutherford, N. J.

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"King Ideal" Boiler.
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Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

BOX TREES—Standards, Pyramids and Bush. In various sizes. Price List on demand. JULIUS ROEHRS CO., Rutherford, N. J.

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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK Branch, 8-10 Bridge St.

CANNAS

108 of the best varieties. Send for new Complete Canna Book, just out. THE CONARD & JONES COMPANY, West Grove, Pa.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLE

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 2000 for $1.00 post paid. I. L. PILLSBURY, Galesburg, Ill.

CELERY PLANTS

Celery Plants, Golden Self-Blanching (French Strain), fine plants, ready now, $2.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

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Chrysanthemums Rooted Cuttings.
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Chrysanthemums—50,000 rooted cuttings and plants from soil; leading market sorts. Write for prices. WM. SWAYNE, Kennett Square, Pa.

COCOANUT FIBRE SOIL

20th Century Plant Food Co., Beverly, Mass.
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CYCLAMENS

Thomas Roland, Nahant, Mass.
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CYCLAMENS from 3 in. pots. Finest strain. Separate colors. JULIUS ROEHRS CO., Rutherford, N. J.

Cyclamen, best German strain, in fine assorted colors; good stock out of 2¼ in. pots at $5.00 per 100. J. H. FIESSER, North Bergen, N. J.

DAHLIAS

Dahlias at greatly reduced prices for 1914. Send for wholesale list. Order early. J. L. MOORE, Northboro, Mass.

Dahlias—2500 field clumps, latest varieties, cheap for cash; or what have you to exchange? GEO. H. WALKER, Dahlia Expert, North Dighton, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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DRACAENAS

Dracaena Indivisa, strong, 7 in. to 4 ft. high, 75c. and $1.00 each. H. WESTON, Hempstead, N. Y.

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4,000 S. A. Nutt, 5 cents. G. P. GRIDLEY, Wolfboro, N. H.

Geranium S. A. Nutt in bud and bloom, 3½ in. pots; good plants, 6c. Cash please. CHAS. H. GREEN, Spencer, Mass.

200 ROSE GERANIUMS from 3-in. pots. Good stuff, 4c. J. A. KEENEY, Monongahela, Pa.

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Greenhouse glass, lowest prices. JOHNSTON GLASS CO., Hartford City, Ind.

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IVIES

English Ivies, 4 in. to 3 ft., $10.00 per 100. H. WESTON, Hempstead, N. Y.

JERUSALEM CHERRIES

Jerusalem Cherry, out of 2¼ in. pots at $3.00 per 100. J. H. FIESSER, North Bergen, N. J.

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Laurus Cerasus: Bush, 35c-$1.00 each; Standards, $7.50-$10.00 each; Pyramids, $5.00-$7.50 each.
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PEONIES.
T. C. Thurlow's Sons, Inc.,
West Newbury, Mass.

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES
A. T. Stearns Lumber Co., Boston, Mass.
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PHOENIX
Phoenix Canariensis, fine large plants. $7.50-$35.00 each.
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Reliable Squab Journal, Versailles, Mo.
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Rose Mrs. George Shawyer.
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Send for complete list of strong two-year field plants of Choicest Roses. THE CONARD & JONES COMPANY, West Grove, Pa.

SALVIAS
SALVIA ZURICK, SPLENDENS — 4 in. 5c., 2¼ in. 2c.; good green stuff. J. A. KEENEY, Monongahela, Pa.

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SNAPDRAGONS
SNAPDRAGONS—10,000 Rooted Cuttings, Silver Pink, Yellow and White, $2.00 per 100, $15.00 per 1000. WM. SWAYNE, Kennett Sq., Pa.

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SPHAGNUM MOSS.
Live Sphagnum moss, orchid peat and orchid basket always on hand. LAGER & HURRELL, Summit, N. J.

SPRINKLING, IRRIGATING AND WATER SUPPLY OUTFITS
Chas. J. Jager & Co., Boston, Mass.

STOVE PLANTS
Orchids—Largest stock in the country-Stove plants and Crotons, finest collection. JULIUS ROEHRS CO., Rutherford, N. J.

STRAWBERRY PLANTS
Burnett Bros., New York City.
Pot-Grown.
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R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SWEET POTATO PLANTS—All the leading yellow varieties, including Yellow Nansemond, Up Rivers, Big Stem Jersey, Early Golden, and other varieties; 1000, $1.50; 5000 or more, $1.25 per 1000. Prompt shipment. H. AUSTIN, Felton, Del.

Cabbage plants, strong outdoor grown; best varieties strong plants; $1.50, 1000. **Tomato** plants, strong, transplanted, best varieties, $2.00 per 1000. Celery, strong, transplanted white plume and pascal; $4, 1000. Strong outdoor grown plants, $2.00 1000. **Egg Plants**, strong potted plants, $1.75 100. Strong transplanted, best ever, $1.00 100. **Peppers**, very strong transplanted, 75c., 100. All above plants are of leading varieties, and will be packed to carry safely. J. A. KEENEY, Monongahela, Pa.

VENTILATING APPARATUS
The Advance Co., Richmond, Ind.
For page see List of Advertisers.
Quaker City Machine Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES
Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS
William Capstick, Auburndale, Mass.
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VIOLETS
Wm. Sim, Cliftondale, Mass.
Princess of Wales.

WEED KILLER
Pino-Lyptol Chemical Co., New York City.

WIRED TOOTHPICKS
W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK
Reed & Keller, New York City.
For page see List of Advertisers.
Komada Bros., Philadelphia, Pa.
For page see List of Advertisers.
Wirework. Write for our catalogue. HOLTON & HUNKEL CO., Milwaukee, Wis.
WILLIAM E. HEILSCHER'S WIRE WORKS, 38-40 Broadway, Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.
Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore
The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued

Boston
N. F. McCarthy & Co., 112 Arch St. and 31 Otis St.
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Welch Bros. Co., 226 Devonshire St.
For page see List of Advertisers.

Brooklyn
Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.
William F. Kasting Co., 383-87 Ellicott St.
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Chicago
Poehlmann Bros. Co., Morton Grove, Ill.
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Detroit
Michigan Cut Flower Exchange, 38 and 40 Broadway.
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Montreal
Montreal Floral Co., Ltd., Montreal, P. Q.
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New York
H. E. Froment, 57 W. 28th St.
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James McManus, 105 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 49 West 28th St., N. Y.
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Moore, Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, New York.
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Traendly & Schenck, 131 W. 28th St.
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The S. S. Pennock-Meehan Co., 117 West 28th St.
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Badgley, Riedel & Meyer, Inc., New York.
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Woodrow & Marketos, 37 & 39 West 28th St.
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J. K. Allen, 106 W. 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young, 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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Philadelphia
Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1008-12 Ludlow St.
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Richmond, Ind.
E. G. Hill Co.
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Rochester, N. Y.
George B. Hart, 24 Stone St.
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Washington
The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers In This Issue

CATTLEYAS.
Freeman Orchid Co., Fall River, Mass.
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FLOWERING AND VEGETABLE PLANTS.
I. M. Raynor, Greenport, N. Y.
For page see List of Advertisers.

GLADIOLI.
S. S. Pennock-Meehan Co., Philadelphia, Pa.
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HAMMOND'S GRAPE DUST.
Hammond Slug Shot Works, Beacon, N. Y.
For page see List of Advertisers.

NEW YORK FLORISTS' CLUB OUTING.
W. E. Marshall, Chairman Committee, 146 West 23rd St., New York.
For page see List of Advertisers.

POINSETTIAS.
A Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Why HORTICULTURE has stood the test as a profitable Advertising medium for the trade.

Because It is read by the men of standing and influence in the Horticultural field, every one of whom is a prospective buyer.

Why HORTICULTURE is so widely read.

Because Its contents are distinctly representative of American Horticulture and are thus indispensable to the Florist, Nurseryman, Seedsman and Gardener.

An Admirer of HORTICULTURE in the Central West writes; "It has won on its merits. It is our most prized weekly visitor."

And Now You See How HORTICULTURE has managed to elbow its way in between its older rivals and why the best trade advertisers find it an indispensable auxiliary.

It's No Secret That the men who read HORTICULTURE are the sort of men that advertisers like to talk to and if you have anything to advertise you can't afford to get along without them.

TWENTY-FIVE YEARS OF PRACTICAL EXPERIENCE.



HAMMOND'S GRAPE DUST

For Use Against Mildew and Blights



GRAPE DUST is a readily diffusible, lightweight powder, **Fungicide**, for destroying Mildew and preventing Blights; also for destroying the **Aphis** and Black Fly. It is packed in 5 and 10 pound packages; also in 25 pound bags, **100 pound** kegs, and barrels of 225 pounds, net. Kept in stock and sold by the leading Seedsmen in America. Dust by use of bellows.

EXPERIENCE OF FLORISTS AND GARDENERS

MILDEW ON ROSES, CARNATIONS, ETC. IT IS SIMPLE AND EASILY APPLIED

Staatsburg, N. Y., May 25, 1908.

Mr. B. Hammond.

Dear Sir: Replying to your inquiries regarding "Grape Dust," would say that we use it solely on Roses, Carnations and Chrysanthemums. As a fungicide we have not found anything to equal it; it is simple and easily applied. We close down the ventilators and fill the house with dust blown through the bellows; when the dust has settled down we ventilate again, putting on a little air as required. We have been using your "Grape Dust" with good results for the last fourteen years. Yours truly, JAMES BLAIR.

Flushing, N. Y., Aug. 1889.

I find your "Grape Dust" the most efficacious remedy for "Mildew" on roses that I have tried, and cheerfully recommend it to the trade. Yours truly, CHAS. P. ANDERSON.
The John Henderson Co., Rose Growers.

Easthampton, Mass., April 4, 1889.

The "Grape Dust" is sudden death to Mildew in greenhouses.
E. A. BRAINERD, Florist, 7 Main Street.

ROBERT SIMPSON, Rose Grower.

Clifton, N. J., Oct. 11th, 1907.

Dear Mr. Hammond: In reply to your inquiry regarding my experience with "Grape Dust," would say that I am glad to be able to say a good word for the article in question, because I have found it so generally satisfactory when used for Mildew on roses. I do not know anything about its constituents, nor do I care so long as it does the work and is as economical as anything else on the market. During the summer when the steam pipes cannot be brought into use to check Mildew, and dusting over the foliage has to be resorted to, we prefer to use Grape Dust rather than Sulphur, because it is much lighter and finer in texture; a given number of pounds will cover more than twice the number of plants; will cover them more thoroughly, and can be put on with a bellows in about one-fourth the time that would be required for Sulphur. The fact that I have used it continuously for ten or twelve years should prove to you that I consider it the best article on the market for the purpose for which it is used.

With best wishes, I am yours very truly,
ROBERT SIMPSON.

Poughkeepsie, N. Y., Jan. 25th, 1912.

Benjamin Hammond, Esq.

Dear Sir: Please send me 25 lbs. "Grape Dust" as soon as possible. I find it is the only thing for Mildew on Roses. We have used it successfully for many years past.
Very truly, CONRAD C. GINDRA.

VALLEY VIEW GREENHOUSES.
Velie Bros., Props.
Growers of Choice Cut Flowers.

Marlborough, N. Y., July 9, 1908.

Mr. B. Hammond.

Dear Sir: Your letter asking our opinion of the qualities of "Grape Dust" received. We have used "Grape Dust" on Carnations, Chrysanthemums and Asters, and we find it an excellent thing for keeping the plants in a healthful condition. No greenhouse establishment should be without "Grape Dust." We find it O. K. Yours truly, VELIE BROS.

CHRYSANTHEMUMS AND CARNATIONS.

This comes from Wallace Gomersall, Superintendent of the famous "Wodenethe," owned and finely maintained by Winthrop Sargent, Esq., Fishkill-on-Hudson, N. Y.:

"For Chrysanthemums we use 'Grape Dust' with the best results by freely dusting with it until the delicate blooms come, then we are a bit shy of it, to prevent any staining of the petals, but during the green state, even in bad weather, there is no trace of fungus, and we keep free of the spot. I have recommended it to many gardeners, and so far my acquaintances have found it very valuable. In common with many Gardeners and Florists, I have found it of great value in checking the Rust on Carnations. It is not expensive to use, for by using in air bellows it diffuses itself everywhere, and is, in my judgment, a valuable everyday article."

Babylon, N. Y., May 25, 1908.

Mr. Hammond, Dear Sir:

It's with pleasure I give testimony to the value of your "Grape Dust." I consider it the safest and cheapest and most reliable Fungicide I have ever used. I use it in grapery, rose houses and amongst any plants that are subject to Mildew, such as Chrysanthemums, etc. I have never had any bad effects through its use for the past twelve years, so this ought to be convincing of its good qualities. With best wishes.
I remain very respectfully, WILLIAM WINCOTT.

S. G. BENJAMIN, Wholesale and Retail Florist.

Fishkill, N. Y., Jan. 8, 1914.

Mr. Benjamin Hammond, Beacon, N. Y.

Dear Sir: Replying to your inquiry, I have known and used your "Grape Dust" in the greenhouse for the past 25 years, and have found it excellent in preventing and keeping down Mildew and other fungus diseases, also found it would prevent and keep down the ravages of the Red Spider on Carnations and other plants. Have used it with success for Mildew on Grape Vines grown under glass.
Yours, etc., S. G. BENJAMIN.

First used in California in 1890 at Menlo Park, San Mateo County.

HAMMOND'S SLUG SHOT WORKS, BEACON, (Fishkill on Hudson) N. Y.

RAISE PIGEONS

THEY PAY DOLLARS WHILE CHICKENS PAY CENTS

The young, 20 to 25 days old, sell for 40 to 60 cents each (according to the season). The city markets are always clamoring for them.

Each pair of Pigeons will raise 18 to 22 young a year.

They will clear you, above all expenses, $5.00 a year per pair. They breed the entire year. Twenty minutes daily will care for 100 pairs.

Always penned up out of the way. Very small space required

All this is fully explained in this month's issue of our Journal; send for it; price 10 cents.

Reliable Squab Journal, Versailles, Mo.

NEWS NOTES.

Cincinnati Chas. Garvey and Chas. Gardner of Peter Weiland's have engaged in the business of making galvanized vases for florists' use. They are doing business under the name of The Queen City Vase & Can Co.

Arlington, N. J.—A young and sportive mustang broke away from his owner one day last week and among the many exciting stunts he performed before he was lassoed was the kicking out of some of the glass in Wm. Tricker's greenhouse and overturning some seedling pond lilies named in honor of Mrs. Woodrow Wilson.

Scotch Soot

Where there is a house that is just full of buds almost ready to show color, nothing will turn better color into the flowers than a little soot, that can be scattered over the benches before watering. The amount applied should not be excessive, as the soot is very strong and may damage some of the foliage somewhat. Apply just enough to blacken the surface of the soil in the benches, and let it go at that. Better a little oftener than too much all at once.

We offer the genuine in original cwt. Sacks, at:

$2.75 per 112 lbs.; $12.50 per 560 lbs.

Stumpp & Walter Co.
30-32 Barclay Street, NEW YORK

LIQUID — "NICO-FUME" — PAPER

THRIPS, - APHIS

SPRAYING—VAPORIZING—FUMIGATING

ASK SEEDSMEN FOR PRICES

Manufactured by THE KENTUCKY TOBACCO PRODUCT CO., Incorporated, Louisville, Ky.

PULVERIZED OR SHREDDED

CATTLE MANURE

Rose and Plant Growers

Now is the time to get Cattle Manure into your bench and potting soil. Its peculiar action and effect cannot be had with anything else. Splendid quality being packed right now. Order today.

The Pulverized Manure Co.,



PULVERIZED

SHEEP MANURE

Carnation Growers

Can't afford to make beds or set plants without it. Wizard Brand is pure, full strength, weed seeds killed, uniform and reliable. Ask your Supply House for Wizard Brand or write us direct.

31 Union Stock Yards, Chicago

NICOTINE MFG. CO. ST. LOUIS, U.S.A.

NIKOTEEN 30 Per Cent Strength For Spraying

APHIS PUNK For Fumigating

ASK YOUR DEALER FOR IT.

Guaranteed under the Insecticide Act of 1910, U. S. No. 46.

NICOTINE MFG. CO. . . . . ST. LOUIS, MO.

Aphine

The Insecticide that kills plant Lice of every species

The Recognized Standard Insecticide

For green, black, white fly, red spider, thrips, mealy bug and soft scale. Can be used on tender plants.

$1.00 per quart—$2.50 per gallon.

FUNGINE

For mildew, rust and other blights. It is perfectly safe to apply to fruits and vegetables, as it is non-poisonous. An infallible remedy for rose mildew, carnation and chrysanthemum rust.

75c. per quart—$2.00 per gallon.

VERMINE

For eel, cut and wire worms working in the soil. It can be applied to all vegetation.

$1.00 per quart—$3.00 per gallon.

SCALINE

For San Jose, Oyster Shell and all scale on trees and hardy stock. An effective remedy for red spider on evergreens.

75c. per quart—$1.50 per gallon.

All the above products are readily soluble in water at proportions directed on cans and are used as spraying materials.

NIKOTIANA

A 12% nicotine solution for fumigating and vaporizing.

$1.50 per quart—$4.50 per gallon.

Manufactured by

Aphine Manufacturing Co.

Manufacturers of Agricultural Chemicals

MADISON, N. J.

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

PLANTLIFE

PLANTLIFE has several advantages over liquid insecticides on the market. Containing refined tobacco dust it can be used to mix with the soil, acting as an excellent fertilizer, at the same time destroying worms and insects in the ground before they have a chance to reach the plant.

PLANTLIFE has been found very effective in ridding greenhouses of insects by dusting on plants. When dry, use for dusting about once a week.

Put up in bulk for greenhouse men; in packages for retail trade.

Bag of 100 lbs. $3.50.

Let us quote you prices in quantity.

The Plantlife Company, 251 East 66th Street NEW YORK, N.Y.

Cocoanut Fibre Soil

This is the Real Nature's Humus. Put it on your lawn this spring. Don't let it burn up, or stand all summer hose in hand.

Order now in 100 lb. bags.

20th CENTURY PLANT FOOD CO.

27 & 29 OCEAN ST., - BEVERLY, MASS.

POISON **KIL - WORM** POISON

Destroys Worms, Ants, etc., infesting Golf, Cricket Grounds, Parks and Lawns. Sure death to Snails. Does not injure Grass; causes the insects to come to the surface to die. (Must not come in contact with fine plants.)

One gallon **Kil-Worm** makes 50 gallons liquid when mixed with water.

1 qt., $1.00; ½ gal., $1.75; 1 gal., $3.00; 5 gals., $13.50.

POISON **KIL - WEED** POISON

A scientific Weed Destroyer—free from odor. An unsurpassed preparation for the removal of Grass, Weeds, Vines and Bushes from paths, etc. Saves expense of several men; can be applied with an ordinary sprinkling can.

One gallon **Kil-Weed** makes 30 to 35 gallons liquid when mixed with water.

1 qt., 35c.; ½ gal., 60c.; 1 gal., $1.00; 5 gals., $4.00; 10 gals., $7.50; 1 barrel, per gal., 65c.

LEMON OIL COMPANY, Dept. K

420 W. Lexington St., Baltimore, Md.

Directions on every pkg.; write for circular.

AETNA BRAND TANKAGE FERTILIZER

Acknowledged to be the best balanced fertilizer manufactured. It contains the ten basic salts constituting soil. It is giving satisfactory results wherever used. Write for 500-lb. sample order.

FARMERS AND FLORISTS FERTILIZER CO.

809 Exchange Ave., Rm. 15. Tel. Yards 842.

U. S. YARDS, CHICAGO, ILL.

When writing to advertisers kindly mention HORTICULTURE.

Est. 1765 FOR "POT LUCK" USE Inc. 1904

Pot Makers for a Century and a Half

HEWS STANDARD POTS

World's Largest Manufacturers

AND RED EARTHENWARE SPECIALTIES

Write for Catalogue and Discounts

A. H. HEWS & CO., Inc., Cambridge, Mass.

Warehouses: CAMBRIDGE, MASS. LONG ISLAND CITY, N. Y.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 11 Hamilton Place, Boson.

FOR SALE

FOR SALE

Lot of land, 248 feet by 106 feet, with 3 iron construction greenhouses, 175 x 20 feet each, potting shed, some frames in fine condition. Located on three streets, trolley passing the front, in a town of 40,000 inhabitants, close to New York. Excellent place, suitable either for local trade, where all the products could be readily sold or for wholesale shipping to New York or Philadelphia. Low price, terms to suit purchaser. Address Chance, care HORTICULTURE.

RETIRING FROM BUSINESS

AUGUST MILLANG wishes to sell his Old Established business, 57 Stuyvesant Ave., cor. Pulach St., Brooklyn, N. Y. Store, two greenhouses and garage. Will sell cheap. Rent reasonable.

FOR SALE—Fresh from factory, new; 10 x 12, 16 x 18, 16 x 24, double thick. A and B qualities. Market dropped. Now is the time to buy and save money. PARSHELSKY BROS., INC., 215-217 Havemeyer St., Brooklyn, N. Y.

BARGAIN — Greenhouse, residence and stock; no competition; live village, 30 miles from Buffalo, excellent shipping facilities. Write ELLIS BROS., Springville, N. Y.

SITUATIONS WANTED

SITUATION WANTED — Assistant gardener, intelligent worker, young man. Near Boston. Address M. A. C., care HORTICULTURE.

INFORMATION WANTED

WANTED names and addresses of foremen seeking positions on commercial places January and February, 1913. Address "J. L.," care HORTICULTURE.

NEWS NOTES.

East Bridgewater, Mass. — George Campbell has purchased the Lane estate and will build a greenhouse for rare plants.

Chicago, Ill. — Kroeschell Brothers Company are installing two 150 horse power Kroeschell steam boilers at the new plant of Bassett & Washburn, Gregg's Station. They have also shipped four carloads of greenhouse boilers this week bound for London, Eng.

DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	$1.45	$16.00	$130.00
20	18 in.	1.30	14.00	115.00
30	16 in.	1.00	11.25	92.00
40	14 in.	.65	7.00	56.00
50	12 in.	.45	5.00	40.00
60	10 in.	.38	4.00	32.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest, lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

GREENHOUSES BUILDING OR CONTEMPLATED.

Tewksbury, Mass. — John Gale, one house.

Philadelphia, Pa. — H. Muller, one house.

Norfolk, Neb.—L. Buckendorf, rebuilding.

Cambridge, O.—Fred Arnold, range of houses.

Anamosa, Pa.—Mrs. M. D. Bagley, one house.

Bondsville, Mass. — A. A. Weldon, one house.

Orange, Tex. — Mrs. H. J. Luchter, one house.

Cambridge, O. — Walter Heffernan, range of houses.

Guthrie, Okla.—Furrow & Co., two houses each 30x150.

Westfield, N. J.—Charles Doerrer, Elm street, two houses.

Troy, N. Y.—John Pickering's Sons, additions and alterations.

Hartford, Ct.—Rev. J. T. Winters, Main St., house 18 x 40.

New Canaan, Ct.—Stephen Hoyt's Sons Co., Carter St., addition.

Pass Christian, Miss.—J. B. Adam & Son, two houses each 20x65.

Lowell, Mass.—John McMenamin, Marshall avenue., house 50x200.

South Milford, N. H.—A. J. Carlton & Son, range of vegetable houses.

San Francisco, Calif. — Rossi Evergreen Company, Brunswick street, three houses each 40x140.

Spokane, Wash.—Peters Bros., two rose houses each 32x100; one house 18x100.

NEW CORPORATION

West Islip, N. Y.—D. C. Arnold & Co., florists, capital stock, $100,000. Incorporators, D. C. Arnold, H. W. Thomas, W. Wincott, Babylon.

Chicago, Ill. — Four more large Kroeschell boilers, two No. 10 Kroeschell, one No. 14 Kroeschell and one No. 15 Kroeschell are on their way to London, England. These four boilers are ordered by the same party who one year ago ordered two No. 14 boilers.

1000 READY PACKED CRATES

STANDARD FLOWER POTS AND BULB PANS

can be shipped at an hour's notice. Price per crate:

2000	1¾	in.	@ $6.00	500	4	in.	@ $4.50
1500	2	"	" 4.88	456	4½	"	" 5.24
1500	2¼	"	" 5.25	320	5	"	" 4.51
1500	2½	"	" 6.00	210	5½	"	" 3.78
1000	3	"	" 5.00	144	6	"	" 3.16
800	3½	"	" 5.80	120	7	"	" 4.20
				60	8	"	" 3.00

HILFINGER BROS. Pottery, Fort Edward, N.Y.

August Rolker & Sons, 51 Barclay St., N. Y. City, Agents

OUR SPECIALTY — Long Distance and TradeExport



The best PAPER POT for shipping purposes. Sizes from 2 in. to 6 in.

Ask your dealer for them. Samples free.

E. ALLAN PEIRCE, 401 Oaks St., Waltham, Mass.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST

28th & M Sts. Washington, D. C.

THE FLORISTS' HAIL ASSOCIATION OF AMERICA, insurer of 39,000,000 sq. ft. of glass

For particulars address

John G. Esler, Sec'y Saddle River, N.J.

PATENTS GRANTED.

1,099,607. Sod-Cutter. Julius Larsen, Deer Lodge, Mont.

1,099,712. Machine for Exterminating Weeds. Arthur Miller, Kiester, Minn.

1,100,115. Adjustable Combined Garden Hoe and Rake. Henry Praasch Los Angeles, Cal.

1,100,313. Attachment for Cultivators. Gotthilf Leischner, Megaret, Tex.

1,100,323. Rake. James Noble Ovens, New York, N. Y.

1,100,387. Cultivator. Clement W. Michael, Racine, Wis., assignor to J. I. Case Plow Works, Racine, Wis.

1,100,512. Cultivator. Charles E. Ward, Trousdale, Okla.

1,100,574. Rake. Harry T. Kingsbury, Keene, N. H.

IF YOU ONLY KNEW what a good eave the METROPOLITAN PATENTED is, you would use no other. It is made of cast iron and will not rust. That part of your greenhouse which in other constructions is the weakest becomes the strongest. Not this alone, it is ice-clearing and carries all the water of condensation from the inside, and it is so constructed that almost the entire end of the bar is exposed to the air, thereby preventing decay. Only one screw, about two inches from the end, is all that is necessary to secure the bars. For side stationary glass, wood headers are absolutely unnecessary, thereby causing no shade. Zinc glass stops are not necessary—the eave is made with a lug to prevent the glass from slipping. Let your next house be built with a **Metropolitan Patented Iron Wall Construction.** You will never regret it. Our price and service are right.



METROPOLITAN MATERIAL CO.
Patented Greenhouses—Heating Engineers
Hotbed Sash, Glass, etc.
1392-1414 Metropolitan Ave., BROOKLYN, N.Y.

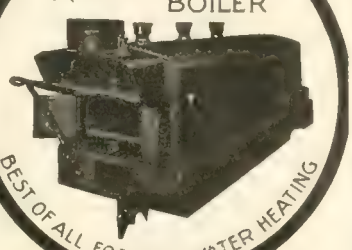
FOLEY
not only builds the very best
GREENHOUSES
but his prices are always low consistent with
GOOD WORK
Try him and be convinced
THE FOLEY GREENHOUSE MFG. CO.
3275 W. 31st St., Chicago

KING
GREENHOUSES
Are supplied in 3 different Iron Frame Types; also in the Semi Iron or Pipe Frame styles, so we can offer you a strong, practical Sunny House at the price you can afford to pay.
Write us today—just tell us what you want and we will do the rest.
KING CONSTRUCTION CO.
28 King's Road, North Tonawanda, N.Y.
All the Sunlight All Day Houses

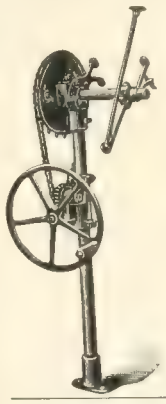
TWEMLOW'S
OLD ENGLISH PUTTY
Gallon Cans $1.75
Wm. Elliott & Sons
42 Vesey St., New York

SHARP, PARTRIDGE & CO.
Are Leaders in
GREENHOUSE GLASS
OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

THE KROESCHELL GREEN HOUSE BOILER
BEST OF ALL FOR HOT WATER HEATING



Kroeschell Bros. Co.
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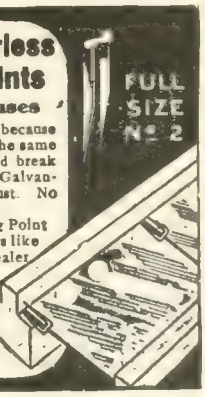
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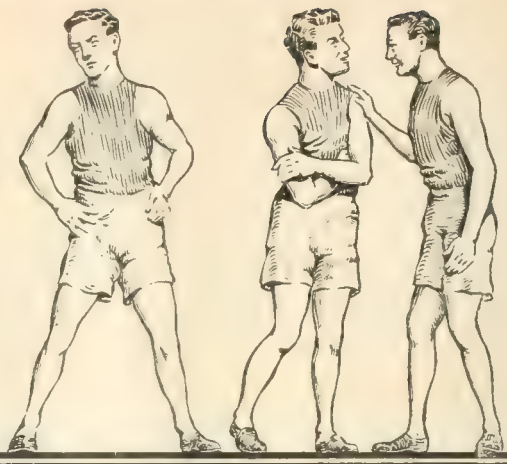
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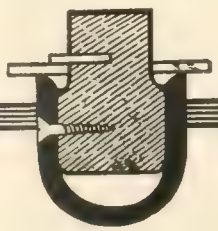
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